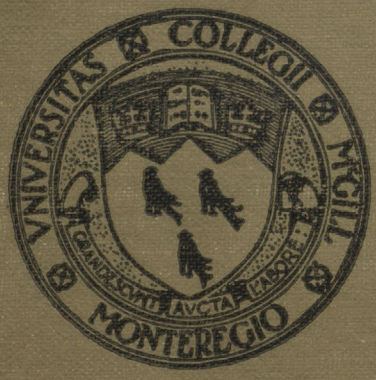
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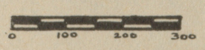
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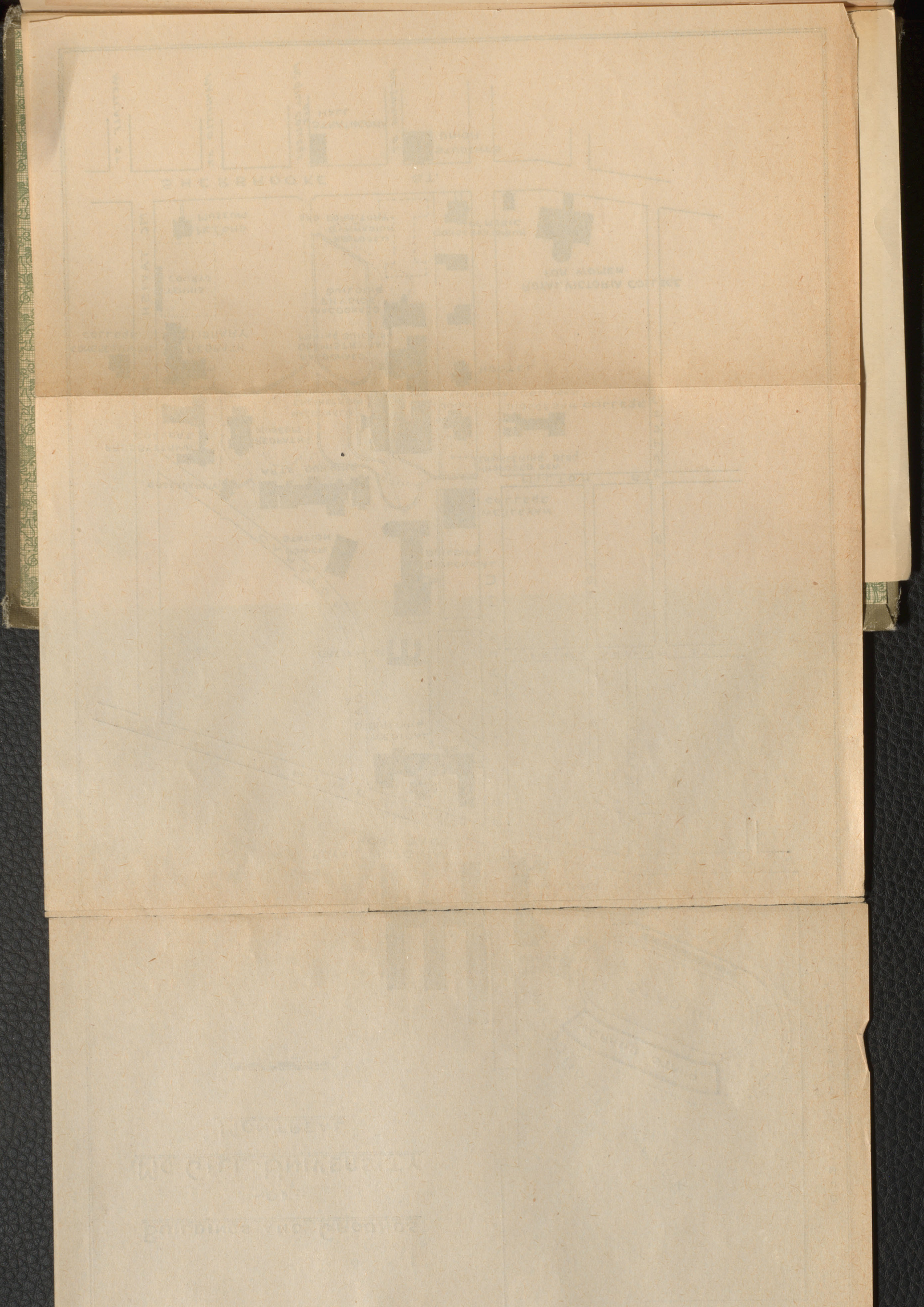
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FOR THE SESSION 1924-25

MONTREAL:
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Faculty of Dentistry.

Faculty of Medicine and Department of Pharmacy.

The Conservatorium of Music.

The School of Commerce.

Faculty of Graduate Studies and Research.

The School for Graduate Nurses.

The School for Social Workers.

The School of Physical Education.

Macdonald College Announcement.

General Announcement.

The Calendar.

The Annual Report.

Matriculation Examination Papers (Price, 25 cents).

# INDEX


| | Page |
|---|---|
| Academic Dress | 125 |
| Academic Year | 36 |
| Accountancy, Courses in | 210 |
| Accounting | 275 |
| Actuarial Science | 212 |
| Administrative Officers | 3 |
| Admission | 56 |
| To Advanced Standing | 79 |
| To the Course in Pharmacy | 349 |
| To Macdonald College | 512 |
| To the Faculty of Law | 378 |
| To the Study of Dentistry | 359 |
| To the Practice of Dentistry | 359 |
| To the Study and Practice of Law in Quebec | 386 |
| To the Practice of Pharmacy | 355 |
| To the Royal Victoria College | 196 |
| To the School for Graduate Nurses | 500 |
| To the School for Social Workers | 487 |
| To the School of Physical Education | 62, 472 |
| To the Study and Practice of Medicine | 312 |
| Advanced Courses in Arts | 137 |
| Advancement from Year to Year in Arts | 150 |
| Advisers | 137 |
| Aero Dynamics | 275 |
| Affiliated Colleges | 48, 49 |
| Age for Admission | 79 |
| Agency | 384 |
| Agriculture, Faculty of | 52, 511 |
| Agronomy, Graduate Courses in | 467 |
| Algebra for Matriculation | 66, 70, 77 |
| Courses in (Arts) | 174 |
| " (Applied Science) | 270 |
| Allen Oliver Gold Medal | 96 |
| Allen Oliver Scholarship | 104 |
| Anatomy | 319 |
| " Dental | 365, 368 |
| " Graduate Courses in | 455 |
| Anglin-Norcross Prize | 98 |
| Anglo-Saxon | 167 |
| Anne Molson Gold Medal | 96 |
| Applied Mechanics, Courses in | 232, 461 |
| Applied Science, Faculty of | 220 |
| Architectural Practice | 252 |
| Architecture:— | |
| Course in | 224 |
| Subject of | 248 |
| Arithmetic for Matriculation | 62 |
| Arts, Faculty of | 51, 136 |
| Assaying, Courses in | 277, 279 |
| Associations | 591 |
| Astronomy | 175 |


202335

PAGE

Athletic Board, University ... 130
Athletics ... 130
Atholstan (Lord) Scholarship ... 86
Attendance, Rules regarding ... 81
B.A. Degree, Courses for ... 136
Babcock and Wilcox Scholarship ... 97
Bachelor of Architecture, Requirements for ... 225
Bachelor of Civil Law, Course for ... 379, 381
Bachelor of Commerce, Course for ... 205
Bachelor of Household Science ... 147
Bachelor of Music Degree, Requirements for ... 392
Bachelor of Science Degree, Courses for, in Arts ... 143
" " " " " " " Applied Science ... 228
Bachelor of Science in Agriculture ... 146
Bachelor of Science in Medicine ... 316
Bacteriology ... 326, 372
" Graduate Courses in ... 452, 457
Banking, Law of ... 385
Bankruptcy ... 385
Bar Regulations, Province of Quebec ... 386
Barbara Scott Scholarship ... 87
Barclay Scholarship ... 88
Baylis Scholarship ... 99
Bedford Graduates Society's Scholarship ... 84
Bio-Chemistry ... 323
Bio-Chemistry (Graduate Courses in) ... 448
Biology for Matriculation ... 75
Biology, Courses in ... 155, 366
Board of Governors ... 1
Their Powers ... 46
Board and Residence ... 121
In Macdonald College ... 513
In Royal Victoria College for Women ... 197

Botany:—
Course in Arts ... 155
" " Dentistry ... 362
" " Medicine ... 314
" " Pharmacy ... 354
" " the Graduate School ... 449
" for Matriculation ... 73, 75
Bridge Design ... 262
British Association Exhibition ... 97
Browne (A. A.) Fellowship ... 100
Buildings ... 515
Bursaries ... 83
Bursaries (Tutorial) in Applied Science ... 99
Business Organization, Course in ... 212
Byron Medal ... 96
Calculus ... 175, 271
Calendar of Meetings, etc ... 36
Canadian Officers' Training Corps ... 134
Carpentry ... 271
Carriers, Law of ... 384
Caution Money ... 110-119
Certificates accepted for Entrance ... 58

| | Page |
|---|---|
| Chapman (Henry) Prize | 95 |
| Chemical Engineering, Course in | 230 |
| Chemistry:— | |
| For Matriculation | 72, 76 |
| In the Faculty of Graduate Studies | 445, 448 |
| In the School of Commerce | 212 |
| Subject of (Arts) | 156 |
| " " (Applied Science) | 254 |
| " " (Dentistry) | 367 |
| " " (Medicine) | 318, 323 |
| " " (Pharmacy) | 353 |
| Childs (A. E.) Exhibition | 98 |
| Civil Code, Course in | 385 |
| Civil Engineering, Course in | 232 |
| " " Graduate Courses in | 461 |
| " " Subject of | 258 |
| Civil Procedure, Courses in | 383, 384 |
| Classes of Students | 50 |
| Classics, Undergraduate Courses in | 159 |
| " Graduate Courses in | 433 |
| Clinical Instruction in Dentistry | 376 |
| Closing Date for Session | 40 |
| Clubs | 591 |
| College Grounds, Management of | 130 |
| Colleges (Affiliated) | 48 |
| Colleges (Incorporated) | 48 |
| Commerce, School of | 205 |
| Committees of Governors and Corporation | 5 |
| Conditioned Undergraduates | 50 |
| Conduct of Students | 123 |
| Congregational College | 49 |
| Congregational College Scholarships | 89 |
| Conservatorium of Music | 389 |
| Constitution of the University | 42, 46 |
| Constitutional Law | 384 |
| Construction, Courses in | 251 |
| Converse of Prerequisite Subjects | 298 |
| Cooper (James) Fund | 100 |
| Corporation, The | 1, 47 |
| Corporations, Course in Law of | 384 |
| Cost of Education | 121, 197 |
| Coster (Charles G.) Prize | 95 |
| Course for B.A. | 136, 140 |
| For Bachelor of Architecture | 225 |
| For Bachelor of Commerce | 136 |
| For B.C.L. | 381 |
| For B.Sc. in Applied Science | 228 |
| For B.Sc. in Arts | 143 |
| For D.D.S. | 362 |
| For M.D., C.M. | 314 |
| In the School for Graduate Nurses | 497 |
| In the School of Physical Education | 475 |
| In the School for Social Workers | 488 |

| | PAGE |
|---|---|
| Courses of Lectures in Arts | 155 |
| " " " " Dentistry | 365 |
| " " " " Law | 383 |
| " " " " Medicine | 317 |
| Courses offered in Arts, with Prerequisites | 139 |
| Criminal Law | 383 |
| Criminal Procedure | 383 |
| Crosby Steam Gauge and Valve Company's Prize | 98 |
| Crown and Bridge Work | 367 |
| Crushing Machinery | 281 |
| Crystallography | 269 |
| Dates for Session 1924-25 | 36 |
| Dawson (Sir William) Fellowship | 107 |
| Dawson (Sir William) Scholarship | 88, 99 |
| Degrees Granted by the University | 51 |
| Degrees in Applied Science | 220 |
| Delta Upsilon Scholarship | 104 |
| Demonstrators | 11 |
| Dental Anatomy | 368 |
| Dental Faculty | 357 |
| Dental History, Ethics and Economics | 368 |
| Dental Jurisprudence | 369 |
| Dental Metallurgy | 369 |
| Department of Commerce | 205 |
| Department of Physical Education | 127 |
| Dermatology | 334 |
| Descriptive Geometry | 263 |
| Design | 248 |
| Designing | 275 |
| Diocesan College | 49 |
| Diploma for Graduate Nurses | 497 |
| Diploma of Licentiate in Accountancy | 208 |
| Diploma of Licentiate in Music | 395 |
| Diploma in Physical Education | 474 |
| Diploma of Public Health | 341 |
| Diploma in the School for Social Workers | 488 |
| Diplomas for Teaching | 165 |
| Discipline | 123 |
| Doctor of Civil Law Degree | 430 |
| Doctor of Dental Surgery, Course for | 361 |
| Doctor of Literature Degree | 431 |
| Doctor of Medicine Degree | 311 |
| Doctor of Music Degree | 392, 431 |
| Doctor of Philosophy Degree | 428 |
| Doctor of Science Degree | 431 |
| Dominion Dental Council | 361 |
| Dominion Registration for Medical Students | 312 |
| Double Courses:— | |
| Arts and Applied Science | 151 |
| Arts and Architecture | 152 |
| Arts and Commerce | 153 |
| " " Dentistry | 153 |
| " " Medicine | 153, 315 |
| " " Theology | 154 |

| | PAGE |
|---|---|
| Douglas (Dr. James) Bursaries | 99 |
| Douglas (Dr. James) Fellowships | 100, 107 |
| Douglas (Dr. James) Studentship | 100 |
| Drawing, Courses in | 252, 264, 271 |
| Drake (Joseph Morley) Prize | 101 |
| Dress, Academic | 125 |
| Early English Text Society's Prize | 95 |
| Economics, Graduate Courses in | 441 |
| Economics, Undergraduate Courses | 162, 213, 269 |
| Education, Courses in | 163 |
| Electric Lighting | 266 |
| Electric Traction | 266 |
| Electrical Design | 266 |
| Electrical Engineering, Course in | 234 |
| " " Graduate Courses in | 462 |
| " " Subject of | 264 |
| Electrical Photometry | 266 |
| Electricity | 183, 289 |
| Electro-Metallurgy | 279 |
| Elizabeth Torrance Gold Medal | 102 |
| Embryology | 320 |
| Emeritus Professors | 34 |
| Engineering Courses | 228 |
| Engineering Economics | 269 |
| Engineering Institute of Canada | 221 |
| Engineering Law | 270 |
| Engineering Physics, Course in | 146, 242 |
| Engineering Societies | 221 |
| English— | |
| Courses in (Applied Science) | 267 |
| Courses in (Graduate) | 436 |
| Courses in (Arts) | 166, 214 |
| For Matriculation | 63, 76 |
| In the School of Commerce | 214 |
| Summer Reading in Applied Science | 267 |
| Entomology, Graduate Courses in | 453 |
| Entrance Examination | 56 |
| Certificates accepted for | 58 |
| Fees | 59 |
| Regulations | 56 |
| Requirements in each subject | 62 |
| Entrance Requirements in Medicine | 388 |
| Entrance Scholarships | 83 |
| Evidence, Course in | 385 |
| Examinations:— | |
| For Entrance | 56 |
| To Qualify as Teacher of Music | 411, 413 |
| In Applied Science | 221 |
| In Arts | 149 |
| In Dentistry | 363 |
| In Law | 382 |
| In Medicine | 310 |
| In Music | 392 |
| In Pharmacy | 351, 411, 413 |
| In the School of Physical Education | 474 |

PAGE

Examinations:—
Local Centre in Music ..... 414
Physical ..... 79
Exhibitions ..... 83
Expenses of Board and Education ..... 121
In Macdonald College ..... 513
In the Royal Victoria College ..... 197
Experimental Engineering ..... 276
Faculties ..... 51
Faculty of Applied Science ..... 52, 220
Of Agriculture ..... 52, 511
Of Arts ..... 51, 136
Of Dentistry ..... 53, 357
Of Graduate Studies and Research ..... 53, 423
Of Law ..... 52, 378
Of Medicine ..... 52, 305
Of Music ..... 53, 389
Fees ..... 108
In Applied Science ..... 111
In Arts ..... 108
In Dentistry ..... 114
In Graduate Studies ..... 119
In Law ..... 115
In Medicine ..... 112
In Music ..... 116, 420
In Pharmacy ..... 117
In the School for Graduate Nurses ..... 118
In the School of Physical Education ..... 119
In the School for Social Workers ..... 118
Fees for Junior Matriculation Examination ..... 59
Fees for Senior Matriculation Examination ..... 78
Fellows of the University ..... 1, 47
Fellowships in Applied Science ..... 107
Fellowships in the Faculty of Graduate Studies and Research ..... 105
Fellowships in Medicine ..... 100
Field Schools:—
In Geodesy ..... 290, 291
In Metallurgy ..... 278
In Mining ..... 284
In Surveying ..... 290, 291
Fire Assaying ..... 277, 279
Fleet (C. J.) Prize ..... 98
Flinn (John W.) Fellowship ..... 101
Foundation of the University ..... 42
Of the Faculty of Medicine ..... 305
Of Macdonald College ..... 511
Of the Royal Victoria College ..... 194
Foundations and Masonry, Course in ..... 259
Freehand Drawing, Courses in ..... 264
French:—
Courses in (Graduate) ..... 438
Courses in (Undergraduate) ..... 187, 214
For Matriculation ..... 64, 76
Geodesy ..... 289
Geology, Graduate Courses ..... 459
Geology, Undergraduate Courses ..... 169, 267

PAGE

Geometry:—
Courses in ..... 174, 270
Descriptive ..... 263
For Matriculation ..... 66, 70, 77
German:—
Courses in ..... 170, 215
For Matriculation ..... 65, 76
Government of the University ..... 46
Governor-General's Gold Medal ..... 96
Governor-General's Silver Medal ..... 104
Governors, Board of ..... 1, 46
Gowns ..... 125
Graduate Courses in Medicine ..... 341
Graduate Fellowship in Economics ..... 105
Graduate Nurses, School for ..... 496
Graduate Studies and Research (Faculty of) ..... 423
Graduates' Societies ..... 601
Greek:—
Courses in (Graduate) ..... 433
Courses in (Undergraduate) ..... 159
For Matriculation ..... 64, 77
Grounds, Management of ..... 130
Gynaecology ..... 338
Health of Students ..... 79, 131
Heating and Ventilation of Buildings ..... 275
Hebrew ..... 178, 433
Henry Chapman Gold Medal ..... 96
Hersey (Dr. Milton L.) Prize ..... 98
Hersey (Dr. Milton L.) Scholarship ..... 105
High School Diploma ..... 53
Highway Engineering ..... 261
Hils (Joseph) Prize ..... 101
Hiram Mills Gold Medal ..... 96
Histology ..... 320
Historical Calendar ..... 43
History (Undergraduate Courses) ..... 173
For Matriculation ..... 62, 77
Graduate Courses ..... 439
Of the Faculty of Dentistry ..... 357
Of the Faculty of Medicine ..... 305
Of Macdonald College ..... 511
Of the Royal Victoria College ..... 194
Of the University ..... 42
History of Medicine, Course in ..... 335
Hoare (Walter J.) Scholarship ..... 100
Holmes Gold Medal ..... 101
Honour Courses for B.A. ..... 140
For B.Sc. in Arts ..... 145
Hoods ..... 125
Hospitals ..... 345
Household Science ..... 514
Houston Scholarship ..... 88
Hydraulics ..... 260
Hygiene ..... 328
" Graduate Courses ..... 342

| | PAGE |
|---|---|
| Immovable Property | 383, 384 |
| Incorporated Colleges | 48 |
| Industrial Administration | 277 |
| Industrial Engineering | 274 |
| Insurance, Law of | 384 |
| International Law, Courses in | 384, 385 |
| I.O.D.E. Bursaries | 83 |
| I.O.D.E. Scholarships | 105 |
| Italian for Matriculation | 66 |
| Jane Redpath Scholarship | 87 |
| Junior Matriculation | 56 |
| Jurisprudence | 383 |
| Kindergarten Assistants' Course | 165 |
| Laboratories | 520 |
| Latin:— | |
| Courses in (Graduate) | 433 |
| Courses in (Undergraduate) | 160 |
| For Matriculation | 64, 77 |
| Law for Engineers | 270 |
| Law, Faculty of | 378 |
| Law, Graduate Courses in | 441 |
| Lease and Hire, Law of | 384 |
| Lecturers | 11 |
| Lectures in Law | 383 |
| Legal History, Course in | 383 |
| Leroy Fellowship | 105 |
| Lettering | 264 |
| Library, Dental | 377 |
| Library Fees | 510 |
| Library, Law | 380 |
| Library, Medical | 347 |
| Library School | 54 |
| Library, The University | 507 |
| License Requirements in Medicine | 312 |
| Licentiate in Accountancy | 208 |
| Licentiate in Music, Diploma of | 395 |
| Licentiate in Pharmacy | 355 |
| Limited Undergraduates | 50, 149 |
| LL.M. Degree | 426 |
| Local Centre Examinations in Music | 414 |
| Logan Gold Medal | 96 |
| Logic | 180 |
| McCall (J. T.) Prize | 98 |
| McCall (James Darling) Scholarship | 87 |
| McCarthy (J. M.) Prizes | 97 |
| Macdonald College | 48, 511 |
| Macdonald College Alumni Association Scholarship | 107 |
| Macdonald (Sir William) Scholarships | 85, 92, 102, 107 |
| Machine Design | 273, 275 |
| Macintosh (Annie) Prize | 95 |
| Mackenzie Scholarships | 88 |
| Macnaghten (Chester) Prize | 95 |
| MacRae (Isabella) Scholarship | 86 |
| McRae (John) Scholarship | 100 |
| Magnetism | 183, 289 |

PAGE

Manufacturing Plant Design ..... 276
Mapping (Mine) ..... 281
Marine Insurance ..... 218
Marketing Problems ..... 216
Marriage Covenants, Course in Law of ..... 385
Master of Arts Degree ..... 424
Master of Laws Degree ..... 426
Master of Science Degree ..... 426
Master of Science in Agriculture Degree ..... 428
Materia Medica ..... 354, 369, 372
Materials of Construction ..... 258
Mathematics (Graduate Courses) ..... 442
Mathematics, Courses in Arts (Undergraduate) ..... 174
  Applied Science ..... 270
  For Matriculation ..... 66, 70, 77
  In the School of Commerce ..... 216
Matriculation Examination ..... 56
  For Junior Matriculation ..... 56
  For Senior Matriculation ..... 75
M.D. Degree, Requirements for ..... 311, 314
Mechanical Drawing ..... 271, 274
Mechanical Engineering, Course in ..... 236
  Graduate Courses in ..... 463
  Subject of ..... 271
Mechanics ..... 258, 259, 270
Mechanics of Machines ..... 272
Medals in Applied Science
  In Arts ..... 96
  In Dentistry ..... 103
  In Medicine ..... 101
  In Physical Education ..... 132
Medical Council Registrars ..... 312
Medical Course ..... 314
Medical Inspectors of Schools, Course for ..... 342
Medical Jurisprudence ..... 329
Medical Societies ..... 348
Medicine, Course in ..... 330
Medicine, Faculty of ..... 305
Merchant Shipping ..... 384
Metallography ..... 280
Metallurgical Calculations ..... 278
Metallurgical Engineering, Course in ..... 238
  Graduate Courses in ..... 464
  Subject of ..... 277, 369
Metallurgy (Dental) ..... 369
Microscopes ..... 113
Military Training ..... 134
Mill Buildings ..... 260
Mineralogy ..... 169, 268, 459
Mining Engineering, Course in ..... 240
  Graduate Courses in ..... 465
  Subject of ..... 284
Mining Summer School ..... 482
Montreal Bar Association Prize ..... 102
Montreal Light, Heat & Power Company's Prize ..... 98

PAGE

Montreal Manufacturers' Fellowship ..... 106
Morals, Regulations re ..... 123
Morris (Alexander) Exhibition ..... 102
Moyse Travelling Scholarships ..... 106
Municipal Engineering ..... 262
Municipal Law ..... 384
Mus. Bac. Degree ..... 392
Mus. Doc. Degree ..... 392
Museums ..... 534
Music, Course in Arts ..... 177
Music Examinations ..... 351, 411, 413, 414
Music, Faculty of ..... 389
Narcissa Farrand Scholarship ..... 84
Neurology ..... 333
New Jersey Zinc Company's Scholarship ..... 107
Notarial Law ..... 385
Nurses, School for ..... 496
Obligations, Course in Law of ..... 383
Obstetrics ..... 338
Officers of Instruction, etc ..... 11
Officers' Training Corps ..... 134
Operative Dentistry ..... 370
Ophthalmology ..... 330
Oral Surgery ..... 371
Ordinary Course for B.A ..... 136
Ordinary Course for B.Sc ..... 143
Ore Deposits ..... 268
Ore Dressing ..... 281, 282
Oriental Languages ..... 178, 433
Ornament and Decoration ..... 249
Orthodontia ..... 371
Orthopaedic Surgery ..... 337
Oto-Laryngology ..... 340
Ottawa Valley Graduates Society's Exhibition ..... 83
Palaeontology ..... 170
Parasitology ..... 327
Partial Students ..... 50, 149, 378
Partnership ..... 384
Pathological Chemistry ..... 323
Pathology ..... 325, 372, 457
Pediatrics ..... 332
Penhallow Prize ..... 95
Persons, Course in Law of ..... 383
Petrography ..... 169, 268
Pharmacology ..... 327
" (Graduate Courses) ..... 458
Pharmacy Department ..... 349
Pharmacy, Subject of ..... 353, 372
Ph.D. Degree, Requirements for ..... 428
Philosophy (Graduate Course) ..... 440
" (Undergraduate Courses) ..... 180
Physical Education ..... 127, 181, 198, 285
McGill School of ..... 469
Physical Examination ..... 79
Physical Geography for Matriculation ..... 73
Physical Practice in School of Physical Education ..... 482

PAGE

Physics:—
Courses in Arts ..... 182
" " Applied Science ..... 288
" " Commerce ..... 216
" " Dentistry ..... 375
" " the Graduate School ..... 443
For Matriculation ..... 72, 77
In the School of Commerce ..... 216
Physiology ..... 318, 321, 376
" (Graduate Courses) ..... 456
Political Economy ..... 162, 269, 441
Political Science ..... 162
Poultry Husbandry, Graduate Course in ..... 440
Power Distribution ..... 264
Power Plant Design ..... 275
Prerequisite Subjects in Applied Science ..... 292
" " " Arts ..... 139
Presbyterian College ..... 49
Presbyterian College Scholarships ..... 88
Prince of Wales Gold Medal ..... 96
Principal, The ..... 1, 47
Privileges for Holders of Degrees in Applied Science ..... 220
Prizes in Arts ..... 95
In Applied Science ..... 97
In Dentistry ..... 103
In Gymnastics ..... 133
In Law ..... 102
In Medicine ..... 101
In the School of Physical Education ..... 474
Probation Regulations in Arts ..... 138
Professors, List of ..... 11
Promotion in Arts, Rules re ..... 150
Prosthetic Dentistry ..... 376
Prosthetic Treatment of Cleft Palate ..... 376
Psychiatry ..... 333
Psychology ..... 186, 334, 440
Public Utilities, Law of ..... 385
Quebec Province Scholarships ..... 106
Railway Engineering ..... 260
Register of Students ..... 539
Registrars of Provincial Medical Councils ..... 312
Registration (University) ..... 80
Requirements in Matriculation Subjects ..... 62
Entrance ..... 83
In Applied Science ..... 97
In Arts ..... 87
In the Graduate School ..... 103
In Law ..... 102
In Medicine ..... 100
In the School for Graduate Nurses ..... 103
Residence in Royal Victoria College ..... 197
Rhodes Scholarship ..... 103
Robert Bruce Bursaries ..... 85
Robert Jones Scholarship ..... 85
Robertson (Louis) Prize ..... 98, 99

| | PAGE |
|---|---|
| Roman Law, Courses in | 383, 384 |
| Romance Languages | 187, 438 |
| Ross (P. S.) Exhibition | 83 |
| Rowat (Thomas Alexander) Scholarship | 102 |
| Royal Victoria College for Women | 48, 194 |
| Royal Victoria College Scholarships | 85 |
| Sales, Law of | 385 |
| Scholarships | 83 |
| School of Commerce | 205 |
| School for Graduate Nurses | 496 |
| School of Physical Education | 469 |
| School for Social Workers | 485 |
| Scott Exhibition | 97 |
| Second Year in Arts | 98 |
| Second Year Scholarships in Arts | 89 |
| Semitic Languages | 178, 433 |
| Senior Matriculation Examination | 75 |
| Shakespeare Gold Medal | 96 |
| Shakespeare Society's Prize | 95 |
| Shop Processes and Management | 272 |
| Shopwork | 271 |
| Sidney Hodgson Exhibitions | 83 |
| Snyder (Charles William) Scholarship | 88 |
| Social Science, Course in | 190 |
| Social Workers, School for | 485 |
| Societies, Associations and Clubs, Officers of | 591 |
| Spanish | 65, 217 |
| Statistics, Course in | 218 |
| Sterry Hunt Fellowship | 105 |
| Stevenson Gold Medal | 103 |
| Stewart (Neil) Prize | 95 |
| Strathcona Certificate Course | 132 |
| Strathcona Prizes for Physical Education | 132 |
| Strength of Materials | 259 |
| Structural Engineering | 260 |
| Students, Classes of | 50 |
| List of | 539 |
| Number in Attendance | 588 |
| Subjects of Entrance Examinations | 59 |
| Successions, Course in the Law of | 384 |
| Summer Essays and Reading in Applied Science | 224 |
| Summer Readings in Arts | 140 |
| Summer Schools:— | |
| In Applied Science | 243 |
| In Mining | 284 |
| In Surveying | 290, 291 |
| Surgery, Course in | 335 |
| " (Oral) | 371 |
| Surveying | 289 |
| Sutherland Gold Medal | 102 |
| Technology | 218 |
| Text Books for Matriculation | 62 |
| " " in Pharmacy | 351 |
| Theological Colleges, Affiliated | 49 |
| Theological Studies, Graduate Courses in | 434 |

PAGE

Theory of Structures ..... 261
Therapeutics ..... 369
Thermodynamics ..... 185, 274, 276
Theses, Regulations re ..... 432
Third Year Scholarships in Arts ..... 92
Third Year in Arts ..... 92
Tighe (James) Prize ..... 98
Time Table of Examinations in Applied Science ..... 302
Time Table of Lectures in Commerce ..... 219
Time Tables of Examinations in Arts ..... 201
Trafalgar Scholarship ..... 84
Training of Teachers ..... 165
Transportation, Course in ..... 218

Trigonometry:—
Courses in ..... 175, 270
For Matriculation ..... 72, 77
Turner (P. J.) Prize ..... 98
Undergraduate Societies ..... 591
Undergraduates ..... 50
University Buildings ..... 515
University Entrance Scholarships ..... 85
University Women's Federation Scholarship ..... 105
Urology, Course in ..... 337
Vaccination ..... 79
Vineberg (Hiram N.) Scholarship ..... 101
Wesleyan College ..... 49
Wicksteed Medals for Physical Education ..... 132
Wills, Law of ..... 385
Wood Gold Medal ..... 101
Workshops, Description of ..... 537
Zoology:—
Course in Arts ..... 192
" " the Graduate School ..... 452

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# ACADEMICAL YEAR, 1924-25

## SEPTEMBER, 1924

| | | |
|---|---|---|
| 1 | Monday | Labour Day. |
| 2 | Tuesday | |
| 3 | Wednesday | |
| 4 | Thursday | |
| 5 | Friday | Last day for receiving applications for the Matriculation Examination. |
| 6 | Saturday | |
| 7 | **SUNDAY** | |
| 8 | Monday | Register opens for Students in Law. |
| 9 | Tuesday | |
| 10 | Wednesday | Register opens for Students in Physical Education. |
| 11 | Thursday | |
| 12 | Friday | |
| 13 | Saturday | Last day for Registration in Law. |
| 14 | **SUNDAY** | |
| 15 | Monday | Matriculation Examination begins. Exhibition, Scholarship and Supplemental Examinations in Arts. Conservatorium of Music opens. Lectures begin in Law. Register opens for Students in Medicine and Dentistry. |
| 16 | Tuesday | |
| 17 | Wednesday | |
| 18 | Thursday | School of Physical Education opens. |
| 19 | Friday | |
| 20 | Saturday | Meeting of the Faculty of Medicine. |
| 21 | **SUNDAY** | |
| 22 | Monday | Lectures begin in Medicine and Dentistry. Register opens for Students in Applied Science who have no conditions. |
| 23 | Tuesday | Lectures begin in Agriculture. |
| 24 | Wednesday | |
| 25 | Thursday | Registration begins in the School for Social Workers. |
| 26 | Friday | |
| 27 | Saturday | |
| 28 | **SUNDAY** | |
| 29 | Monday | Registration of Students in Arts and Applied Science. |
| 30 | Tuesday | Registration of Students in Arts and Applied Science. |

## OCTOBER, 1924

| | | |
|---|---|---|
| 1 | Wednesday | Lectures begin in Arts, and Applied Science and Schools for Social Workers and Graduate Nurses. |
| 2 | Thursday | Physics Building Committee. |
| 3 | Friday | Meeting of the Faculty of Arts. |
| 4 | Saturday | |
| 5 | **SUNDAY** | |
| 6 | Monday | General Convocation for Conferring Degrees. Opening Address for the Session. Museum Committee. Meeting of the Faculty of Applied Science. |
| 7 | Tuesday | Library Committee. |
| 8 | Wednesday | Regular Meeting of Corporation. Register closes in Medicine. |
| 9 | Thursday | |
| 10 | Friday | Summer Essays in Applied Science to be sent in. Intercollegiate Sports. No Lectures. |
| 11 | Saturday | |
| 12 | **SUNDAY** | |
| 13 | Monday | |
| 14 | Tuesday | |
| 15 | Wednesday | |
| 16 | Thursday | |
| 17 | Friday | |
| 18 | Saturday | Meeting of the Faculty of Medicine. |
| 19 | **SUNDAY** | |
| 20 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 21 | Tuesday | |
| 22 | Wednesday | |
| 23 | Thursday | Concert by members of the Staff of the Conservatorium of Music. |
| 24 | Friday | |
| 25 | Saturday | |
| 26 | **SUNDAY** | |
| 27 | Monday | |
| 28 | Tuesday | |
| 29 | Wednesday | |
| 30 | Thursday | |
| 31 | Friday | |

## NOVEMBER, 1924

| | | |
|---|---|---|
| 1 | Saturday | |
| 2 | **SUNDAY** | |
| 3 | Monday | Meeting of the Faculty of Applied Science. |
| 4 | Tuesday | |
| 5 | Wednesday | |
| 6 | Thursday | |
| 7 | Friday | Meeting of the Faculty of Arts. |
| 8 | Saturday | |
| 9 | **SUNDAY** | |
| 10 | Monday | Thanksgiving Day. No Lectures. |
| 11 | Tuesday | |
| 12 | Wednesday | |
| 13 | Thursday | |
| 14 | Friday | |
| 15 | Saturday | |
| 16 | **SUNDAY** | |
| 17 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 18 | Tuesday | |
| 19 | Wednesday | |
| 20 | Thursday | |
| 21 | Friday | |
| 22 | Saturday | |
| 23 | **SUNDAY** | |
| 24 | Monday | |
| 25 | Tuesday | |
| 26 | Wednesday | |
| 27 | Thursday | |
| 28 | Friday | |
| 29 | Saturday | |
| 30 | **SUNDAY** | |

## DECEMBER, 1924

| | | |
|---|---|---|
| 1 | Monday | Meeting of the Faculty of Applied Science. |
| 2 | Tuesday | |
| 3 | Wednesday | |
| 4 | Thursday | Physics Building Committee. First Orchestral Concert, Faculty of Music. |
| 5 | Friday | Meeting of the Faculty of Arts. |
| 6 | Saturday | |
| 7 | **SUNDAY** | |
| 8 | Monday | Museum Committee. |
| 9 | Tuesday | |
| 10 | Wednesday | Regular Meeting of Corporation. |
| 11 | Thursday | |
| 12 | Friday | |
| 13 | Saturday | |
| 14 | **SUNDAY** | |
| 15 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 16 | Tuesday | |
| 17 | Wednesday | |
| 18 | Thursday | |
| 19 | Friday | |
| 20 | Saturday | Last day of lectures before Christmas. |
| 21 | **SUNDAY** | |
| 22 | Monday | |
| 23 | Tuesday | |
| 24 | Wednesday | |
| 25 | Thursday | Christmas Day. |
| 26 | Friday | |
| 27 | Saturday | |
| 28 | **SUNDAY** | |
| 29 | Monday | |
| 30 | Tuesday | |
| 31 | Wednesday | |

## JANUARY, 1925

| | | |
|---|---|---|
| 1 | Thursday | New Year's Day. |
| 2 | Friday | |
| 3 | Saturday | |
| 4 | **SUNDAY** | |
| 5 | Monday | Lectures resumed in all Faculties. Meeting of the Faculty of Applied Science. |
| 6 | Tuesday | |
| 7 | Wednesday | |
| 8 | Thursday | |
| 9 | Friday | Meeting of the Faculty of Arts. |
| 10 | Saturday | First Term lectures end in Arts, Law, and Applied Science. |
| 11 | **SUNDAY** | |
| 12 | Monday | |
| 13 | Tuesday | First Term Examinations in Arts and Law begin. Library Committee. |
| 14 | Wednesday | First Term Examinations in Applied Science begin. |
| 15 | Thursday | |
| 16 | Friday | |
| 17 | Saturday | Meeting of the Faculty of Medicine. |
| 18 | **SUNDAY** | |
| 19 | Monday | Second Term opens. Engineering Building Committee. Chemistry and Mining Building Committee. |
| 20 | Tuesday | |
| 21 | Wednesday | |
| 22 | Thursday | |
| 23 | Friday | |
| 24 | Saturday | |
| 25 | **SUNDAY** | |
| 26 | Monday | |
| 27 | Tuesday | |
| 28 | Wednesday | |
| 29 | Thursday | |
| 30 | Friday | |
| 31 | Saturday | |

## FEBRUARY, 1925

| | | |
|---|---|---|
| 1 | **SUNDAY** | |
| 2 | Monday | Meeting of the Faculty of Applied Science. Museum Committee. |
| 3 | Tuesday | |
| 4 | Wednesday | |
| 5 | Thursday | Physics Building Committee. |
| 6 | Friday | Meeting of the Faculty of Arts. |
| 7 | Saturday | |
| 8 | **SUNDAY** | |
| 9 | Monday | |
| 10 | Tuesday | |
| 11 | Wednesday | Regular Meeting of Corporation. |
| 12 | Thursday | |
| 13 | Friday | |
| 14 | Saturday | |
| 15 | **SUNDAY** | |
| 16 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 17 | Tuesday | |
| 18 | Wednesday | |
| 19 | Thursday | |
| 20 | Friday | |
| 21 | Saturday | |
| 22 | **SUNDAY** | |
| 23 | Monday | |
| 24 | Tuesday | |
| 25 | Wednesday | Ash Wednesday. No lectures. |
| 26 | Thursday | Second Orchestral Concert. |
| 27 | Friday | |
| 28 | Saturday | |

## MARCH, 1925

| | | |
|---|---|---|
| 1 | **SUNDAY** | |
| 2 | Monday | Meeting of the Faculty of Applied Science. |
| 3 | Tuesday | |
| 4 | Wednesday | |
| 5 | Thursday | |
| 6 | Friday | Meeting of the Faculty of Arts. |
| 7 | Saturday | |
| 8 | **SUNDAY** | |
| 9 | Monday | |
| 10 | Tuesday | |
| 11 | Wednesday | |
| 12 | Thursday | |
| 13 | Friday | |
| 14 | Saturday | |
| 15 | **SUNDAY** | |
| 16 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 17 | Tuesday | |
| 18 | Wednesday | |
| 19 | Thursday | |
| 20 | Friday | |
| 21 | Saturday | |
| 22 | **SUNDAY** | |
| 23 | Monday | |
| 24 | Tuesday | |
| 25 | Wednesday | |
| 26 | Thursday | |
| 27 | Friday | |
| 28 | Saturday | |
| 29 | **SUNDAY** | |
| 30 | Monday | |
| 31 | Tuesday | |

## APRIL, 1925

| | | |
|---|---|---|
| 1 | Wednesday | |
| 2 | Thursday | Physics Building Committee. |
| 3 | Friday | Meeting of the Faculty of Arts. |
| 4 | Saturday | Meeting of the Faculty of Medicine. |
| 5 | **SUNDAY** | |
| 6 | Monday | Meeting of the Faculty of Applied Science. Museum Committee. |
| 7 | Tuesday | Library Committee. |
| 8 | Wednesday | Regular Meeting of Corporation. |
| 9 | Thursday | Second term lectures end for the first three years in the Faculty of Applied Science. |
| 10 | Friday | Good Friday. No lectures. |
| 11 | Saturday | No lectures. |
| 12 | **SUNDAY** | Easter Sunday. |
| 13 | Monday | |
| 14 | Tuesday | Sessional Examinations in Applied Science begin, for the first three years. |
| 15 | Wednesday | |
| 16 | Thursday | |
| 17 | Friday | |
| 18 | Saturday | |
| 19 | **SUNDAY** | |
| 20 | Monday | Engineering Building Committee Chemistry and Mining Building Committee. |
| 21 | Tuesday | |
| 22 | Wednesday | |
| 23 | Thursday | Third Orchestral Concert, Faculty of Music. |
| 24 | Fr day | |
| 25 | Saturday | |
| 26 | **SUNDAY** | |
| 27 | Monday | Summer School in Applied Science opens. |
| 28 | Tuesday | |
| 29 | Wednesday | Lectures end. |
| 30 | Thursday | |

## MAY, 1925

| | | |
|---|---|---|
| 1 | Friday | Meeting of the Faculty of Arts. |
| 2 | Saturday | Meeting of the Faculty of Medicine. |
| 3 | **SUNDAY** | |
| 4 | Monday | Examinations begin in Arts and Applied Science. Meeting of the Faculty of Applied Science. |
| 5 | Tuesday | |
| 6 | Wednesday | Theory Examinations in Music. |
| 7 | Thursday | |
| 8 | Friday | |
| 9 | Saturday | |
| 10 | **SUNDAY** | |
| 11 | Monday | |
| 12 | Tuesday | |
| 13 | Wednesday | |
| 14 | Thursday | |
| 15 | Friday | |
| 16 | Saturday | |
| 17 | **SUNDAY** | |
| 18 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. Practical Examinations in Music. |
| 19 | Tuesday | |
| 20 | Wednesday | |
| 21 | Thursday | |
| 22 | Friday | Last day of lectures in Music. |
| 23 | Saturday | Summer School in Applied Science ends. |
| 24 | **SUNDAY** | Victoria Day |
| 25 | Monday | |
| 26 | Tuesday | |
| 27 | Wednesday | |
| 28 | Thursday | |
| 29 | Friday | Convocation for Conferring Degrees. |
| 30 | Saturday | |
| 31 | **SUNDAY** | |

## JUNE, 1925

| | | |
|---|---|---|
| 1 | Monday | |
| 2 | Tuesday | |
| 3 | Wednesday | King's Birthday. |
| 4 | Thursday | Physics Building Committee. |
| 5 | Friday | |
| 6 | Saturday | |
| 7 | **SUNDAY** | |
| 8 | Monday | Museum Committee. |
| 9 | Tuesday | |
| 10 | Wednesday | Regular Meeting of Corporation. |
| 11 | Thursday | |
| 12 | Friday | |
| 13 | Saturday | Conservatorium closes. |
| 14 | **SUNDAY** | |
| 15 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 16 | Tuesday | |
| 17 | Wednesday | |
| 18 | Thursday | |
| 19 | Friday | |
| 20 | Saturday | |
| 21 | **SUNDAY** | |
| 22 | Monday | |
| 23 | Tuesday | |
| 24 | Wednesday | |
| 25 | Thursday | |
| 26 | Friday | |
| 27 | Saturday | |
| 28 | **SUNDAY** | |
| 29 | Monday | |
| 30 | Tuesday | |

## JULY, 1925

| | | |
|---|---|---|
| 1 | Wednesday | Dominion Day. |
| 2 | Thursday | |
| 3 | Friday | |
| 4 | Saturday | |
| 5 | **SUNDAY** | |
| 6 | Monday | |
| 7 | Tuesday | |
| 8 | Wednesday | |
| 9 | Thursday | |
| 10 | Friday | |
| 11 | Saturday | |
| 12 | **SUNDAY** | |
| 13 | Monday | |
| 14 | Tuesday | |
| 15 | Wednesday | |
| 16 | Thursday | |
| 17 | Friday | |
| 18 | Saturday | |
| 19 | **SUNDAY** | |
| 20 | Monday | |
| 21 | Tuesday | |
| 22 | Wednesday | |
| 23 | Thursday | |
| 24 | Friday | |
| 25 | Saturday | |
| 26 | **SUNDAY** | |
| 27 | Monday | |
| 28 | Tuesday | |
| 29 | Wednesday | |
| 30 | Thursday | |
| 31 | Friday | |

## AUGUST, 1925

| | | |
|---|---|---|
| 1 | Saturday | |
| 2 | **SUNDAY** | |
| 3 | Monday | |
| 4 | Tuesday | |
| 5 | Wednesday | |
| 6 | Thursday | |
| 7 | Friday | |
| 8 | Saturday | |
| 9 | **SUNDAY** | |
| 10 | Monday | |
| 11 | Tuesday | |
| 12 | Wednesday | |
| 13 | Thursday | |
| 14 | Friday | |
| 15 | Saturday | |
| 16 | **SUNDAY** | |
| 17 | Monday | |
| 18 | Tuesday | |
| 19 | Wednesday | |
| 20 | Thursday | |
| 21 | Friday | |
| 22 | Saturday | |
| 23 | **SUNDAY** | |
| 24 | Monday | |
| 25 | Tuesday | |
| 26 | Wednesday | |
| 27 | Thursday | |
| 28 | Friday | |
| 29 | Saturday | |
| 30 | **SUNDAY** | |
| 31 | Monday | |

# McGill University

## HISTORY AND CONSTITUTION.

### FOUNDATION AND EARLY HISTORY.

McGill University owes its origin to a private endowment It was founded by the Hon. James McGill, a leading merchant and public-spirited citizen of Montreal, who died in 1813. By his will, dated January 8th, 1811, he bequeathed his property of Burnside (consisting of 46 acres of land with the dwelling-house and other buildings thereon) and a sum of £10,000 in money to found a college in a provincial university, the erection of which had already been provided for by the British Government. The four trustees appointed under his will were directed to convey the property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of free schools and the advancement of learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that the Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "a University or College, for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges in the University, if established, should "be named and perpetually be known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of governmental education and to the refusal of the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate, but, owing to protracted litigation, this was not surrendered to them till 1829, when the work of teaching was begun in two faculties, Arts and Medicine. The record of the first thirty years of the University's existence is an unbroken tale of financial embarrassment and administrative difficulties. The charter was cumbrous and unwieldly, and unsuited to a small college in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of Montreal awoke to the value of the institution which was

struggling in their midst. Several gentlemen undertook the responsibility of its reorganization, and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

## HISTORICAL CALENDAR.

| | |
|---|---|
| October 6, 1744 | James McGill born. |
| January 8, 1811 | Date of Will of Hon. James McGill, bequeathing to certain persons, for transfer to the Royal Institution for the Advancement of Learning, his Burnside property of 46 acres and £10,000 in money, for the founding of McGill College. |
| December 19, 1813 | James McGill died. |
| March 31, 1821 | Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College. |
| May 1, 1822 | Montreal General Hospital opened for patients. |
| January 29, 1823 | Charter granted to the Montreal General Hospital. |
| October 28, 1824 | Lectures began in the Montreal Medical Institution. |
| January 29, 1829 | Venerable Archdeacon Mountain appointed Principal. Teaching begun in two Faculties, Arts and Medicine. |
| June 28, 1829 | The Montreal Medical Institution became the Medical Faculty of McGill University. |
| April 1834 | Principal Mountain resigned. |
| April 22, 1834 | Rev. T. T. Uxford appointed Principal. |
| July 13, 1835 | Principal Uxford resigned. |
| November 18, 1835 | Rev. John Bethune appointed Principal, pro tem. |
| July 12, 1843 | Rev. John Bethune appointed Principal. |
| July 7, 1846 | Principal Bethune resigned. |
| July 7, 1846 | Mr. Edward Allen Meredith appointed Principal. |
| 1848 | Course in Law begun in the Faculty of Arts. |
| 1852 | Amended Charter obtained. |
| February 1, 1853 | Principal Meredith resigned. |
| February 1, 1853 | Hon. Mr. Justice C. D. Day appointed Principal, pro tem. |
| 1853 | Faculty of Law established. |
| September 8, 1855 | Principal Day resigned. |
| September 8, 1855 | Sir William Dawson appointed Principal. |
| 1856 | Course in Engineering begun in the Faculty of Arts. |
| October 10, 1862 | William Molson Hall opened. |
| 1863 | Observatory opened. |

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|---|---|---|
| | 1864 | Congregational College of Canada opened in Montreal and affiliated to McGill University. (This College had been founded in Dundas, Ontario, in 1839.) |
| | 1865 | Montreal Presbyterian College founded. (Work begun in the Lecture Hall of Erskine Church, corner of St. Catherine and Windsor Streets.) |
| | 1870. | Courses of lectures by McGill Professors established for women. |
| | 1871. | Engineering Course amplified into the Department of Practical Science in the Faculty of Arts. |
| | 1872. | Work of the Faculty of Medicine transferred from their downtown quarters to the McGill Campus. |
| | 1873. | Diocesan College founded. |
| | 1873. | First Montreal Presbyterian College Building erected. |
| | 1875 | Wesleyan Theological College opened. |
| | 1878 | Faculty of Applied Science organized. |
| | 1879 | Wesleyan Theological College affiliated to McGill University. |
| | 1880 | Diocesan College affiliated to McGill University. |
| August 16, | 1882 | Peter Redpath Museum opened. |
| | 1882. | Presbyterian College enlarged by the erection of the David Morrice Hall. |
| | 1883 | Old Wesleyan Theological College erected. |
| | 1884 | Present Congregational College Buildings opened. (From 1864 to 1884 the work of the College had been carried on first in Zion Church and afterwards in Emmanuel Church.) |
| | 1884 | Women admitted to courses in Arts leading to degrees, under the Donalda endowment. |
| February 24, | 1893 | Macdonald Physics and Engineering Buildings opened. |
| July 31, | 1893 | Sir William Dawson resigned the Principalship. |
| October 31, | 1893. | Redpath Library opened. |
| | 1894. | Observatory enlarged. |
| | 1894. | Royal Victorial Hospital opened. |
| August 7, | 1895. | Sir William Peterson appointed Principal. |
| | 1895. | A tract of about 35 acres, comprising the top of Westmount Mountain, purchased and donated to the University by Sir William Macdonald. |
| | 1896. | Present Montreal Diocesan College Buildings opened. |
| | 1896. | Department of Architecture established. |

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| December 20, 1898. | Macdonald Chemistry and Mining Buildings opened. |
| September 4, 1899. | Royal Victoria College for women opened. |
| November 18, 1899. | Sir William Dawson died. |
| September 18, 1901. | Strathcona Medical Building opened. |
| 1903. | Dental Department opened in connection with the Faculty of Medicine. |
| October 14, 1904. | Conservatorium of Music opened. |
| 1905. | Strathcona Hall opened. (This is the home of the Students' Christian Association of McGill University.) |
| 1905. | The Medical Faculty of Bishop's College amalgamated with McGill. |
| 1906. | McGill Union (the students' social centre) opened. |
| 1906. | Department of Commerce established under the Faculty of Arts. |
| April 5, 1907. | Macdonald Engineering Building burned. |
| " 16, 1907. | Medical Building burned. |
| " 24, 1907. | Faculty of Agriculture established. |
| November 5, 1907. | Macdonald College opened. |
| April 27, 1909. | New Engineering Building opened. |
| 1909. | Power Plant erected. |
| 1909. | Joseph property, at the south-west corner of the McGill Campus, purchased and donated to the University by Sir William Macdonald. |
| June 5, 1911. | New Medical Building opened. |
| July 4, 1911. | Gift of Frothingham, Molson and Law properties (25 acres) from Sir William Macdonald. |
| November 20-24, 1911. | $1,500,000.00 raised chiefly from the citizens of Montreal as a general endowment for the University. |
| 1912. | Montreal Co-operating Theological Colleges established. (This is a union of the Congregational, Diocesan, Presbyterian and Wesleyan Colleges for a certain number of lecture courses.) |
| 1912. | McGill School of Physical Education established. |
| 1913. | New Wesleyan Theological College opened. |
| 1915. | McGill Stadium completed. (This was erected on Macdonald Park, which was donated to the University by Sir William Macdonald in 1911.) |
| 1917. | Montreal College of Pharmacy incorporated with McGill University as the Department of Pharmacy of the Faculty of Medicine. |

| | |
|---|---|
| February 25, 1918. | Gift of $1,000,000 from the Carnegie Corporation of New York "in recognition of the noble and devoted service and sacrifice of McGill towards Canada's part in the Great War." |
| May 1, 1918. | Sir William Peterson resigned the Principalship on account of ill-health. |
| 1918. | Department of Social Science established. |
| October 25, 1919. | Name of the McGill Stadium changed to "The Percival Molson Stadium" and formally dedicated to the memory of the late Percival Molson, who was killed in the Great War and who bequeathed $75,000 for its erection. |
| 1919. | Faculty of Dentistry established. |
| 1920. | Faculty of Music established. |
| 1920. | School for Graduate Nurses established. |
| August 1, 1920. | Sir Arthur Currie appointed Principal. |
| November 15, 1920. to November 20, 1920. | Over $4,000,000 subscribed by citizens of Montreal and graduates for the funds of the University; also $1,000,000 granted for the same purpose by the Government of the Province of Quebec, and $1,000,000 by the Rockefeller Foundation of New York for medical education. |
| January 4, 1921. | Sir William Peterson died. |
| June 5, 1924. | Gift of $500,000 from the Rockefeller Foundation for the purpose of establishing a medical clinic. |

## GOVERNMENT OF THE UNIVERSITY.

By the amended Charter "the Governors, Principal, and Fellows" of the University are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority, however, is vested in the Crown, and is exercised by his Excellency the Governor-General of Canada, for the time being, as **Visitor.** This is a special and important feature of the constitution, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to twenty-five. Three of these are elected by the members of the Graduates' Society and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is ex-officio Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member ex-officio). He also holds the office of Vice-Chancellor of the University.

The **Fellows** (44 in number) are selected with reference to the representation of all the faculties and departments of the University, and of the graduates, affiliated colleges, and other bodies.

The Governors, Principal and Fellows together constitute the **Corporation,** the highest academical body. Its powers are fixed by statute and include the framing of all regulations touching courses of study, matriculation, graduation, discipline and the granting of degrees.

The carrying out of the regulations of Corporation along with primary responsibility for the conduct of the educational work of the University is entrusted to the several **Faculties**—Arts, Medicine, Law, Applied Science, Agriculture, Dentistry and Music.

# INCORPORATED AND AFFILIATED COLLEGES.

## INCORPORATED COLLEGES.

**Macdonald College** is situated at Ste. Anne de Bellevue, about twenty miles from Montreal. It consists of three departments:—The School of Agriculture, the School of Household Science, and the School of Teachers. Courses leading to the Bachelor's and Master's degrees in Agriculture are under the control of the Corporation of McGill University; all the short term courses in agriculture, as well as the courses in domestic science, are under the direction of the Executive Committee of Macdonald College, and those for diplomas to teach in the Province of Quebec are subject to the immediate supervision of the Teachers' Training Committee. Full information is given in the Macdonald College Announcement, which will be sent on application to the Principal, Macdonald College, Que.

**The Royal Victoria College** is the women's College of McGill University for courses in the Faculty of Arts. For further particulars, see pages 194-200.

## AFFILIATED COLLEGES.

**Acadia, Alberta and Mount Allison Universities and the University of St. Francis Xavier's College** are affiliated to McGill University to the extent that students who have completed the two-year course in engineering given by these universities are admitted directly to the Third Year in any of the engineering courses in the Faculty of Applied Science.

Students from these universities entering the Third Year must take the summer school suitable to their course, in May, or the special school in September, which will open in 1924 on September 2nd in Chemical, Mechanical and Metallurgical Engineering, and on September 15th in Civil and Mining Engineering.

**Royal Military College.**—Graduates of the Royal Military College of Kingston are admitted to the Third Year in the several engineering departments of the Faculty of Applied Science. They must in all cases take the respective summer schools pertaining to these several courses, which are held in September, as per the preceding paragraph.

Arrangements have also been made whereby graduates and students of the Mechanical Science course in the University of Cambridge will be admitted to advanced standing in the Faculty of Applied Science under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

## AFFILIATED THEOLOGICAL COLLEGES.

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions who are pursuing a double course in Arts and Theology (six years at least) will be exempted from a half course in Arts in each of the Third and Fourth Years or a whole course in either.

**The Congregational College of Canada, Montreal.**—Principal, Rev. D. L. Ritchie, B.A., D.D., 58 McTavish St.

**The Diocesan College of Montreal.**—Principal, Rev. E. I. Rexford, M.A., LL.D., 743 University St.

**The Presbyterian College, Montreal,** in connection with the Presbyterian Church in Canada.—Principal, Rev. D. J. Fraser, M.A., LL.D., D.D., 69 McTavish St.

**The Wesleyan College of Montreal.**—Principal, Rev. James Smyth, LL.D., 760 University St.

A movement was inaugurated in the session 1912-13 for a large measure of co-operation among the above Colleges, with the result that a considerable portion of the work which had hitherto been done separately is now taken in joint classes.

For Calendars and all necessary information, apply to the Principals of the several Colleges.

## AFFILIATION TO OTHER UNIVERSITIES.

The University is affiliated to the universities of Oxford, Cambridge and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the Second Year sessional examination in Arts, to pursue his studies and take his degree at any of these universities on a reduced period of residence.

# CLASSES OF STUDENTS.

These are four classes of students in the University:

(1) Graduates—students who have previously obtained an ordinary degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree, or for the degree of Ph.D.

(2) Undergraduates—students who have passed the matriculation examination and, in the case of Second, Third and Fourth Year students, all the examinations of their course in the Years below that in which they are registered.

(3) Conditioned undergraduates—those with defective entrance qualifications or who have failed in one or more of the subjects of their course in the Year below that in which they are registered.

(4) Partial students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study in the University. In order to obtain admission, such students must pass the matriculation examination in the subject, or subjects, which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the courses.

(5) Limited undergraduates—students in the Faculty of Arts who have matriculated, but who for special reasons are not able to follow the regular curriculum of four years. Such students may, if the reasons advanced appear satisfactory to the Dean, be given the status of Limited Undergraduates and may distribute their work for the degree over five, but not over more than eight years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular undergraduate curriculum, and shall conform to the time-table.

Limited Undergraduates will not be eligible for Honour courses, scholarships, exhibition, bursaries or prizes of any description. For fees see page 109.

# FACULTIES, COURSES AND DEGREES

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University buildings in Montreal; and also in Macdonald College at Ste. Anne de Bellevue.

## COURSES FOR DEGREES AND DIPLOMAS.

The several courses offered by the University are as follows:—

### In the Faculty of Arts.

For the degree of Bachelor of Arts (B.A.).
" " " " Bachelor of Science (B.Sc. in Arts).
" " " " Bachelor of Commerce (B. Com.).

The undergraduate courses of study which lead to the degree of B.A. or B.Sc. extend over four sessions of eight months each. In the Second, Third and Fourth years extensive options are provided, and certain exemptions are also allowed to professional students. See pages 138 and 151.

The course for the degree of Bachelor of Commerce extends over four years. (Full information is given in a separate Announcement.)

The following courses are also offered:—One leading to the degree of Bachelor of Science in Agriculture, with the privilege of qualifying for a First Class High School Diploma; and another to the degree of Bachelor of Household Science. The first two years are taken in the Faculty of Arts and the last two in the Faculty of Agriculture, or the School of Household Science, as the case may be. Details of these two courses will be found on pages 146 and 147 and in the Macdonald College Announcement.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine, in eight years, with that in Applied Science or Dentistry, in six years, and with the course in Architecture in seven.

The courses in Arts are open to women (who are educated mainly in separate classes) on equal terms with men. Residential accommodation for women students is provided in the Royal Victoria College. Further particulars are given on pages 194 to 200.

Holders of the degree of B.A. from this University are admitted to the study of the learned professions, without preliminary examination, in the different provinces of Canada, and in Great Britain and Ireland, and elsewhere. They will also be granted First Class High School Diplomas to teach in the Province of Quebec, provided they have passed an examination in pedagogy and have taught, under supervision, for the time required by law.

**In the Faculty of Applied Science.**

For the degree of Bachelor of Architecture (B.Arch.).

For the degree of Bachelor of Science (B.Sc.), in the departments of Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, Metallurgical Engineering, and Mining Engineering.

The undergraduate courses of study for the degree of B.Sc. extend over four sessions, averaging (with summer sessions) about eight months each, and provide a thorough professional training in the departments mentioned above. The course for the degree of B.Arch. extends over five years. Full particulars are given on pages 224 to 241.

The undergraduate course in Arts can be taken along with the undergraduate course in Applied Science in six years, and with that in Architecture in seven.

**In the Faculty of Law.**

For the degree of Bachelor of Civil Law (B.C.L.).

The undergraduate course for this degree extends over three sessions of eight and a half months each.

**In the Faculty of Medicine.**

For the degree of Doctor of Medicine and Master of Surgery (M.D., C.M.).

For the degree of B.Sc. in Medicine.

For the Diploma of Public Health.

For the Diploma of Pharmacy.

The undergraduate course of study leading to the degree of M.D., C.M., extends over five sessions of eight months each following two pre-medical years. For further information regarding the first three courses consult the Faculty Announcement, and for details of the course in Pharmacy see pages 349 to 356.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine in eight years.

**In Macdonald College.**

For the degree of Bachelor of Science in Agriculture (B.Sc. in Agriculture and B.S.A.).

Other courses in the School of Agriculture.

For the degree of Bachelor of Household Science (B.H.S.), two years in Arts, and two in the School of Household Science.

Other courses in the School of Household Science.

The several courses for teachers' diplomas.

The course of study for the degree of Bachelor of Science in Agriculture extends over four sessions of about eight months each. It aims to provide a thorough theoretical and practical training in the several branches of the science.

The Macdonald College Announcement, containing full details as to buildings, courses, terms of admission, fees, etc., can be obtained from the Principal, Macdonald College P.O., Que.

**In the Faculty of Dentistry.**

For the degree of Doctor of Dental Surgery (D.D.S.).

The undergraduate course of study leading to the degree of D.D.S. extends over four sessions of eight months each. (For further particulars, see pages 357 to 377.)

The undergraduate course in Arts can be taken along with the undergraduate course in Dentistry in six years.

**In the Faculty of Music.**

For the degree of Bachelor of Music (Mus. Bac.).

For the Diploma of Licentiate in Music, and the several Grade examination certificates.

Students are admitted as *Regular Students* taking an organized course leading to the diploma of Licentiate in Music or the degree of Bachelor of Music or as *Partial Students,* who, under certain conditions and after examination, can obtain certificates bearing the imprimatur of the University. Full details can be obtained on application to the Secretary of the McGill Conservatorium of Music, 323 Sherbrooke St. West, Montreal.

**In the Faculty of Graduate Studies and Research.**

For the degrees of Master of Arts (M.A.), Master of Science (M.Sc.), Master of Laws (LL.M.), Master of Science in Agriculture (M.S.A.), Doctor of Philosophy (Ph.D.), Doctor of Science (D.Sc.), Doctor of Literature (Litt.D.), Doctor of Civil Law (D.C.L.), and Doctor of Music (Mus. Doc.).

Full information as to admission and departments in which studies are offered will be found on pages 423 to 468.

The degree of Doctor of Laws is given only as an honorary degree.

**The Course for the First Class Academy Diploma of the Province of Quebec.**

Certain courses are given by the Department of Education, which when supplemented by practice teaching and observation (except in the case of holders of the Intermediate Diploma, who have already

satisfied these requirements) lead to a First Class High School Diploma on graduation.

The latter diploma can also be obtained by those who qualify for the degree of B.Sc. in Agriculture by taking two years in Arts, followed by two in the Faculty of Agriculture. (See Macdonald College Announcement.)

### School for Graduate Nurses.

Three courses, each covering an academic year, and leading to a certificate: (a) For Public Health Nursing; (b) Teaching in Schools of Nursing; (c) Administration in Schools of Nursing. (See page 496.)

### School of Physical Education.

Two-year course, leading to a diploma. Full particulars are given on pages 469 to 484.

### School for Social Workers.

A Diploma Course extending over two years and a Certificate Course over one. See pages 485 to 495.

### Library School.

A six weeks' session in elementary cataloguing, classification and library routine will be held from May 19 to June 27.

Application for admission should be made to the University Librarian.

The fee of Sixty Dollars is payable in advance.

The following is an outline of the course:

A. *Technical Courses:* 1, Library handwriting and typing; 2, Elementary Cataloguing; 3, Classification; 4, Book numbers; 5, Accessioning; 6, Shelf-listing; 7, Binding and Repairs; 8, Alphabeting; 9, Filing and Indexing; 10, Summary of library routine.

B. *Bibliographic Courses:* 11, Reference work; 12, Trade Bibliography and Ordering; 13, Book Selection; 14, Subject Bibliography; 15, Development of the Manuscript; 16, Periodicals; 17, Serials.

C. *Administrative Courses:* 18, Library administration; 19, Loan administration; 20, Modern library planning; 21, Library equipment, Supplies and Printing; 22, The Care of the Stack; 23, The Public Library; 24, Special Libraries.

D. *Library Extension:* 25, Publicity and Extension work; 26, Travelling Libraries; 27, The School Library; 28, Literature for Children; 29, Museums and their use.

E. *Special Lectures:* The Canadian Book Trade; Modern Library Planning; The Making of the Book; The Bible; Canadian Government Publications; Canadian Writers; Manuscripts and Documents: their care and use; A Literary Tour of England.

**Extension Courses.**

Evening lectures on a variety of subjects.

# ENTRANCE REQUIREMENTS

## JUNIOR MATRICULATION.

### 1. REGULATIONS

1. Matriculation examinations (for entrance into the Faculties of Arts, Applied Science, Music and Agriculture) are held in June, September and January—in June at McGill University and local centres; in September and January, at Montreal only, except in cases which require special consideration.

ALL INQUIRIES RELATING TO THE EXAMINATION SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 16th of June. Full information regarding the exact date of the examination, fee, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, Esq., M.A., Secretary Headmasters' Conference, 5 Paper Buildings, Temple, London, E.C. 4.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 15) one month before, the examination begins. Blank forms may be obtained from the Registrar.

No application for the examination in June, at outside centres, will be received after May 15th.

3. Candidates will not be considered as having passed in any subject unless they obtain at least 50 per cent. of the maximum marks in that subject (in subjects in which two papers are set, 50 per cent. on the two and not less than 40 in either.)

This regulation applies also in the case of certificates.

Credit will be given for any paper passed within a period of two years from the date of the first attempt. A candidate who does not complete the examination within that time will be obliged to take the whole over again.

4. Candidates for admission to the Faculty of Arts, Applied Science, Agriculture or Music who have failed to complete the matriculation requirements will be allowed to enter the First Year as conditioned undergraduates, provided (a) that they have not failed in more than two papers (which cannot both be in the mathematical section, nor in two languages) and (b) that they have obtained at least 25 per cent. in the subjects in which they have failed and 50 per cent. of the aggregate.

This regulation applies also to candidates who seek to satisfy the matriculation requirements by means of certificates granted by other recognized examining bodies.

The condition must be removed before the student can be admitted to the Second Year. It cannot be removed, however, by passing the First year examination in the subject in which the candidate is conditioned.

In order to be admitted to the Faculty of Law, or Medicine, a candidate is required to complete two years in Arts. In the case of the Faculty of Medicine, Physics and Latin are required for admission to Arts, Chemistry is compulsory in the First Year and Physics, Chemistry and Biology in the Second, with special reference to medical studies.

For admission to Dentistry two years in Arts at McGill or some other recognized University must be completed by students who intend to practise in the Province of Quebec, or the preliminary examination prescribed by the Dental Board of the Province must be passed.

A certificate of registration with the Dental Board of any other province or of any state or country will be required in the case of all others.

5. Matriculation certificates will be issued to candidates who have passed the entrance examination conducted by the University, but not to those who have qualified by means of certificates, except when the greater part of the requirements has been satisfied by passing the University examination.

6. The certificates and diplomas named below will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the junior matriculation examination, *i.e.*, in so far as the subjects and standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass the matriculation examination at the regular time set therefor (June, September, or January), in such of the necessary subjects as are not covered thereby.

*Intending students who wish to enter by certificates should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificates they hold, as many of these lack one or more essential subjects, or the work done in a subject may not be adequate, or again, the percentage gained may not be sufficiently high (see regulation 3). Moreover, it must be remembered that a certificate may admit to one Faculty or Department and not to*

*another. When a diploma or certificate does not show the marks obtained in the several subjects of the examination, it must be accompanied by an official statement containing this information.*

**Province of Quebec.**

The University School Leaving Certificate.
The Intermediate School Diploma.

**Province of Ontario.**

Certificate of entrance to the Normal Schools.
Junior Matriculation Certificate.

**Province of New Brunswick.**

First Class, Superior and Grammar School Licenses.
Grades XI and XII Certificates.

**Province of Nova Scotia.**

Grade XI Certificate.

**Province of Prince Edward Island.**

First Class Teachers' License.
Second Year Certificate of Prince of Wales College.

**Province of British Columbia.**

Intermediate Grade Certificate.

**Province of Manitoba.**

Second Class Teachers' Certificate.
Grade XI Certificate.

**Provinces of Alberta and Saskatchewan.**

The Departmental Certificate of Standard XI.

**Newfoundland.**

Associate Grade Certificate.

**United States.**

Certificates granted by the College Entrance Examination Board and by the New York State Board of Regents.

**Great Britain.**

The holder of a Higher Certificate or a School Certificate of the Oxford and Cambridge Schools Examination Board, of the Senior Certificate of the Oxford or Cambridge Board of Examiners, of a First Class Certificate of the College of Preceptors or of a Higher Examination Certificate of the Scotch and Welsh Educational Departments is entitled to exemption from the matriculation examination, *pro tanto,* if the candidate has at one and the same examination passed in certain specified subjects.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as occasion may require. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

### II. JUNIOR MATRICULATION EXAMINATION FEES.

| | |
|---|---|
| For an examination in six or more papers..... | $7.00 |
| (For an examination at a local centre where not more than four candidates are writing, the fee will be determined by the Registrar.) | |
| For an examination in from three to five papers..... | 4.00 |
| For an examination in one or two papers..... | 2.00 |
| For examination of certificates, in respect of which candidates are exempted from the whole of the matriculation examination ..... | 2.00 |

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

### III. SUBJECTS OF EXAMINATION.

#### Faculty of Arts.

A. *For admission to the B.A. course.*

| | Marks Assigned | |
|---|---|---|
| 1. | 200 | **English.** |
| 2. | 100 | **History.** |
| 3. | 200 | **Latin** *or* **Greek.** |
| 4. | 200 | One of the following:— **Greek** *or* **Latin** (the one not already chosen), **French, German.** |

| | | |
|---|---|---|
| 5. | 200 | **Elementary Mathematics.** |
| 6. | 100 | One of the following:— **Botany, Chemistry, Physics, Physical Geography, Arithmetic,** a **foreign language not** already chosen. |
| | Total 1,000 | |

(*Candidates are advised to choose Physics under this head*)

Physics is compulsory for those who intend ultimately to study medicine.

Holders of Intermediate Diplomas who are certified by the Dean of the School for Teachers of Macdonald College to have taken 75 per cent. of the total marks at their final examinations, with not less than 50 per cent. of the marks in (1) mathematics, (2) French, and (3) Latin or Greek, respectively, will be admitted without further examination as undergraduates of the First Year in Arts.

B. *For admission to the B.Sc. course in Arts.*

| | Marks Assigned | |
|---|---|---|
| 1. | 200 | **English.** |
| 2. | 100 | **History.** |
| 3. | 200 | **French.** |
| 4. | 200 | **Latin** *or* **Advanced Mathematics** *or* two subjects under No. 6. |
| 5. | 200 | **Elementary Mathematics.** |
| 6. | 100 | One of the following:— **Botany, Chemistry, Physics, Physical Geography,** *or* (for those who have already taken two of these subjects under No. 4), **Arithmetic, Drawing, Advanced Mathematics,** a second **foreign language.** |
| | Total 1,000 | |

(*Candidates are advised to choose Physics under this head.*)

Latin and Physics are compulsory for those who intend ultimately to study Medicine.

C. *For admission to the School of Commerce.*

The matriculation examination for the B.A., or the B.Sc. Course in Arts, but German or Spanish may be substituted for French.

## Faculty of Applied Science.

A. *For all courses leading to the degree of B.Sc. in the different branches of Engineering.*

| | Marks Assigned | |
|---|---|---|
| 1. | 200 | **English.** |
| 2. | 100 | **History.** |
| 3. | 200 | One of the following:— **French, German, Spanish, Latin, Greek.** |
| 4. | 200 | **Elementary Mathematics.** |
| 5. | 200 | **Advanced Mathematics.** |
| 6. | 100 | One of the following:— **Botany, Chemistry, Physics, Physical Geography, Arithmetic,** a **Language** not already chosen. |
| | Total 1,000 | |

(*Candidates are advised to take Physics under this head.*)

B. *For the course leading to the Degree of B. Arch.*

The same as for entrance to the Engineering Course, as shown above with Freehand and Geometrical Drawing added.

In the case of Drawing, applicants may send specimens of their work to the Head of the Department or take an examination at the time of the regular matriculation examination in September. No examinations taken elsewhere are accepted as an equivalent for this subject.

No student will be admitted to the Department of Architecture as an undergraduate, until he has satisfied the matriculation requirements in this subject.

## Faculty of Agriculture.

| | Marks Assigned | |
|---|---|---|
| 1. | 200 | **English.** |
| 2. | 100 | **History.** |
| 3. | 200 | **Latin** *or* **French** *or* **German** *or* **Spanish** (French preferred). |
| 4. | 200 | **Elementary Mathematics.** |
| 5. | 100 | Any one of the following:—**Botany, Chemistry, Physics, Zoology, Physical Geography.** |
| | Total 800 | |

A School Leaving Certificate of the Province of Quebec or an Intermediate Diploma, or a matriculation certificate for entrance to any other Faculty of the University will also be accepted.

Candidates, without academic training sufficient to qualify for entrance by any of the methods above, who are at least twenty years of age and possess a substantial farm experience, together with mental endowments sufficient to successfully undertake the course despite some academic handicap, may be admitted to the course by an Admission Committee, provided that students so admitted be required to obtain matriculation standing before entering the Third Year.

*Opportunity for Matriculation.*—A limited number of students who have not matriculation standing, but who think they might be able to obtain it after one or two years' study, can be accommodated in residence and take work at the High School, provided they are sufficiently advanced to enter Grade X or XI.

### School of Physical Education.

The subjects required for the Faculty of Agriculture, as shown above.

### Faculty of Music.

| | Marks Assigned | |
|---|---|---|
| 1. | 200 | **English.** |
| 2. | 100 | **History.** |
| 3. | 400 | Two of the following:—**French, German, Spanish, Italian, Latin.** |
| 4. | 100 | **Arithmetic** *or* **Algebra** *or* **Geometry.** |
| 5. | 100 | **Rudiments of Music:** musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh. |
| Total | 900 | |

### IV. REQUIREMENTS IN EACH SUBJECT.

For 1925 and 1926.

**Arithmetic.**

All the ordinary rules, including square root, and a knowledge of the metric system.

One examination paper.

**History and Historical Geography.**

Candidates may choose any one of the following:—

(1) General History from 1300 A.D. to the present time. West's World Progress (Allyn & Bacon), pp. 305 to the end, which is authorized for the schools of the Province of Quebec, indicates the scope of

the examination. Any standard General History covering the same ground may be used instead.

(2) Ancient History to 14 A.D. *Text-Book:*—Botsford's History of the Ancient World, *or* the High School Ancient History (The Macmillan Company of Canada).

(3) British History from 1714 to the present time. *Text-Book:*—The Groundwork of British History by Warner and Marten (Blackie & Sons, Edinburgh), Part III., with appendices.

The geography required will be that relating to the history prescribed.

One examination paper.

**English.**

A. *Composition.* As in the Ontario High School Composition, pages 198 to the end (Copp, Clark Co.), with a short essay on a general subject and two or three others based on the works prescribed for reading, as follows:—Shakespeare, Richard II (Macmillan*); Thackeray, Henry Esmond (Macmillan*); Selected English Essays (Dent).

These books should be read carefully, but the student's attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Frequent practice in composition is essential.

B. *Literature* (for critical study).—Shakespeare, Macbeth (Copp, Clark Co.*); Poems of the Romantic Revival, pages 29-56, and 83-162 (Copp, Clark Co., Ltd., Toronto).

Passages for memorization:—

The Prelude, lines 40-56; Lines Composed above Tintern Abbey, lines 90-104; The Rainbow, the whole; Ode on Intimations of Immortality, lines 58-76; She Dwelt among the Untrodden Ways, the whole; The Daffodils, the whole; The World is too Much with us, the whole; To a Skylark, the last verse; The Cloud, lines 45-84; Ode to a Nightingale, lines 61-70; Songs from Pippa Passes, lines 1 to 8; The Italian in England, lines 145-160; Andrea del Sarto, lines 69-98 and 127-135; Asolando, lines 11-20; King Richard II, Act I, Scene I, lines 176-185; Act I, Scene III, lines 227-232; Act I, Scene III, lines 275-293; Act II, Scene II, lines 14-24; Act III, Scene II, lines 145-170; Macbeth, Act I, Scene VII, lines 1-7; Act II, Scene I, lines 33-43; Act II, Scene II, lines 35-40; Act III, Scene II, lines 13-26; Act V, Scene III, lines 40-45; Act V, Scene V, lines 17-28.

Candidates will also be expected to commit to memory other passages amounting to at least 30 lines.

Two examination papers; one on Composition and the other on Literature (for critical study).

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*These editions are recommended, not prescribed.

An alternative paper will be set on the work specified in English for the Junior Matriculation examination of the Province of Ontario.

Spelling will be tested by the candidates' papers in English. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

**Greek.**

*Texts.*—Philpotts and Jerram, Easy Selections from Xenophon, chaps. 3, 4, 5; Homer, Iliad I, lines 1 to 350.

*Grammar.*—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

*Translation at Sight* from Greek into English.

Two examination papers; one on Xenophon and Composition, the other on Homer and Translation at Sight.

Alternative questions will be set on the work prescribed in Greek for the Junior Matriculation Examination of the Province of Ontario, if this differs from that specified above.

**Latin.**

*Texts* (Translation and Grammatical study).

Virgil, Aeneid, Book II; Cornelius Nepos, "Lives" (Miltiades, Themistocles and Aristides). (Elementary Classics, Macmillan.)

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Latin into English.

*Composition.*—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two examination papers; one on Nepos and Composition, and the other on Virgil and Translation at Sight.

Note.—The "Roman" method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin texts prescribed for the Junior Matriculation Examination of the Province of Ontario, if these differ from those specified above.

**French.**

*Grammar.*—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

*Translation at Sight* into English of a French passage of moderate difficulty.

*Translation at Sight* into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French grammar.

*Books recommended:*—Fraser and Squair's French Grammar or Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

A list of French texts suitable for class reading can be obtained by applying to the Registrar.

Two examination papers; one on grammar, including translation of short English sentences into French, and one on translation of continuous passages from French into English and from English into French.

**German.**

*Grammar.*—A thorough knowledge of German accidence and syntax, as in Van der Smissen, or any other German grammar of equally good standing.

*Translation at Sight* into English of a German passage of moderate difficulty.

*Translation into German* of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

*Texts.*—(Translation and grammatical study) :—

Guerber, Märchen und Erzählungen (Heath), omitting Nos. 3, 4, 10, 14 and Poems; Storm, Geschichten aus der Tonne (Heath).

The Ontario Junior Matriculation requirements in German will be accepted in place of the texts specified above.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

**Spanish.**

*Grammar.*—Translation from English into Spanish of short sentences involving important rules of syntax; translation from prescribed books; unseen translation from Spanish into English; Spanish composition: the translation of easy continuous prose passages from English into Spanish.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into Spanish and one on translation of continuous passages from Spanish into English and from English into Spanish.

*Books recommended:*—Elementary Spanish grammar, Sanin Cano (Oxford Press); Spanish Composition, Loiseaux (Silver, Burdett & Company).

*Prescribed books:*—Novelas Cortas by Alarcon (Ginn & Company); Spanish Reader, Sanin Cano (Oxford Press).

**Italian.**

*Grammar.*—A thorough knowledge of Italian accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

*Translation at Sight* into English of an Italian passage of moderate difficulty.

*Translation into Italian* of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of Italian grammar.

*Books recommended:*—Grandgent's Italian Grammar (Heath); Grandgent's Italian Composition (Heath); Bowen's Italian Reader (Heath).

Two papers will be set; one on grammar, including translation of short English sentences into Italian, and one on translation of continuous passages from Italian into English and from English into Italian.

**Elementary Mathematics.**

*Algebra.*—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities; as in Hall and Knight's Elementary Algebra, to the end of surds, pp. 1-269 (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper.

*Geometry.*—The paper shall contain questions on practical and on theoretical geometry. Every candidate shall be expected to answer questions in both branches of the subject.

The questions on practical geometry shall be set on the constructions contained in the annexed Schedule A, together with easy extensions of them. In cases where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately. Questions may be set in which use of the set square or the protractor is forbidden.

The questions on theoretical geometry shall consist of theorems contained in the annexed Schedule B together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition shall be accepted which appears to the examiners to form part of a systematic treatment of the subject; the order in which the theorems are stated in Schedule B is not imposed as the sequence of their treatment.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

SCHEDULE A.

Bisection of angles and of straight lines.

Construction of perpendiculars to straight lines.

Construction of an angle equal to a given angle.

Construction of parallels to a given straight line.

Simple cases of the construction from sufficient data of triangles and quadrilaterals.

Division of straight lines into a given number of equal parts or into parts in any given proportions.

Construction of a triangle equal in area to a given polygon.

Construction of tangents to a circle and of common tangents to two circles.

Simple cases of the construction of circles from sufficient data.

Construction of a fourth proportional to three given straight lines and a mean proportional to two given straight lines.

Construction of regular figures of 3, 4, 6 or 8 sides in or about a given circle.

Construction of a square equal in area to a given polygon.

SCHEDULE B.

If a straight line stands on another straight line, the sum of the two angles so formed is equal to two right angles; and the converse.

If two straight lines intersect, the vertically opposite angles are equal.

When a straight line cuts two other straight lines, if (i) a pair of alternate angles are equal, or (ii) a pair of corresponding angles are equal, or (iii) a pair of interior angles on the same side of the cutting line are together equal to two right angles, then the two straight lines are parallel; and the converse.

Straight lines which are parallel to the same straight line are parallel to one another.

The sum of the angles of a triangle is equal to two right angles.

If the sides of a convex polygon are produced in order, the sum of the angles so formed is equal to four right angles.

If two triangles have two sides of the one equal to two sides of the other, each to each, and also the angles contained by those sides equal, the triangles are congruent.

If two triangles have two angles of the one equal to two angles of the other, each to each, and also one side of the one equal to the corresponding side of the other, the triangles are congruent.

If two sides of a triangle are equal, the angles opposite to these sides are equal; and the converse.

If two triangles have the three sides of the one equal to the three sides of the other, each to each, the triangles are congruent.

If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, the triangles are congruent.

If two sides of a triangle are unequal, the greater side has the greater angle opposite to it; and the converse.

Of all the straight lines that can be drawn to a given straight line upon a given point outside it, the perpendicular is the shortest.

The opposite sides and angles of a parallelogram are equal, each diagonal bisects the parallelogram, and the diagonals bisect one another.

If there are three or more parallel straight lines, and the intercepts made by them on any straight line that cuts them are equal, then the corresponding intercepts on any other straight line that cuts them are also equal.

Parallelograms on the same or equal bases and of the same altitude are equal in area.

Triangles on the same or equal bases and of the same altitude are equal in area.

Equal triangles on the same or equal bases are of the same altitude.

Illustrations and explanations of the geometrical theorems corresponding to the following algebraical identities:—

$$\begin{aligned} k\ (a + b + c \ldots) &= ka + kb + kc + \ldots \\ (a + b)^2 &= a^2 + 2ab + b^2 \\ (a - b)^2 &= a^2 - 2ab + b^2 \\ (a^2 - b^2) &= (a + b)\ (a - b). \end{aligned}$$

The square on a side of a triangle is greater than, equal to, or less than the sum of the squares on the other two sides, according as the angle contained by those sides is obtuse, right, or acute. The difference in the cases of inequality is twice the rectangle contained by one of the two sides and the projection on it of the other.

The locus of a point which is equidistant from two fixed points is the perpendicular bisector of the straight line joining the two fixed points.

The locus of a point which is equidistant from two intersecting straight lines consists of the pair of straight lines which bisect the angles between the two given lines.

A straight line, drawn from the centre of a circle to bisect a chord which is not a diameter, is at right angles to the chord; conversely, the perpendicular to a chord from the centre bisects the chord.

There is one circle, and one only, which passes through three given points not in a straight line.

In equal circles (or in the same circle) (i) if two arcs subtend equal angles at the centres, they are equal; (ii) conversely, if two arcs are equal, they subtend equal angles at the centres.

In equal circles (or in the same circle) (i) if two chords are equal, they cut off equal arcs; (ii) conversely, if two arcs are equal, the chords of the arcs are equal.

Equal chords of a circle are equidistant from the centre; and the converse.

The tangent at any point of a circle and the radius through the point are perpendicular to one another.

If two circles touch, the point of contact lies on the straight line through the centres.

The angle which an arc of a circle subtends at the centre is double that which it subtends at any point on the remaining part of the circumference.

Angles in the same segment of a circle are equal; and, if the line joining two points subtends equal angles at two other points on the same side of it the four points lie on a circle.

The angle in a semicircle is a right angle; the angle in a segment greater than a semicircle is less than a right angle; and the angle in a segment less than a semicircle is greater than a right angle.

The opposite angles of any quadrilateral inscribed in a circle are supplementary; and the converse.

If a straight line touch a circle, and from the point of contact a chord be drawn, the angles which this chord makes with the tangent are equal to the angles in the alternate segments.

If two chords of a circle intersect, either inside or outside the circle, the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other.

If a straight line is drawn parallel to one side of a triangle, the other two sides are divided proportionally; and the converse.

If two triangles are equiangular, their corresponding sides are proportional; and the converse.

If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles are proportional, the triangles are similar.

The internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle, and likewise the external bisector externally.

The ratio of the areas of similar triangles is equal to the ratio of the squares on corresponding sides.

Text-book recommended:—Hall and Stevens' School Geometry, pp. 1-203; 219-265; 267-269 and 274-276 and Theorems 66, 70, 71, 72.

An alternative paper will be set on the Ontario Junior Matriculation requirements in this subject.

One examination paper.

**Advanced Mathematics.**

*Algebra.*—The three progressions, ratio, proportion, variation, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper.

*Geometry.*

Constructions.

To draw the inscribed, escribed, and circumscribing circles of a triangle.

To construct triangles under given conditons.

To divide a given line externally and internally in medial section.

To construct an isosceles triangle, such that each of the base angles is twice the vertical angle.

To describe a regular pentagon.

To construct a polygon similar to a given polygon and such that their areas are in a given ratio.

To construct a figure equal in area to a given figure A, and similar to another figure B.

Theorems.

If two sides of one triangle be equal respectively to two sides of another, that with the greater contained angle has the greater base; and conversely.

If a triangle is such that the square on one side is equal to the sum of the squares on the other two sides, the angle contained by these sides is a right angle.

The three medians of a triangle are concurrent.

Perpendiculars from the angles to the opposite sides of a triangle are concurrent.

The complements of parallelograms about the diagonal of any parallelogram are equal.

If the circumference of a circle be divided into $n$ equal arcs:—

(1) The points of division are the vertices of a regular polygon of $n$ sides inscribed in the circle.

(2) If tangents be drawn to the circle at these points, these tangents are the sides of a regular polygon of $n$ sides circumscribed about the circle.

If $OA : OB = OC^2$, OC is a tangent to the circle through A B C.

If two triangles have an angle in each equal, and the sides about two other angles proportional, the remaining angles are equal or supplemental.

The perpendicular from the right angle of a right-angled triangle on the hypotenuse divides the triangle into two triangles which are similar to the original triangle.

The sum of the rectangles contained by the opposite sides of a quadrilateral, about which a circle can be described, is equal to the rectangle contained by its diagonals.

The squares on two sides of a triangle are together equal to twice the square on half the third side and twice the square on the median to that side.

If from the vertical angle of a triangle a straight line be drawn perpendicular to the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base, together with the square on the straight line which bisects the angle.

The areas of two similar polygons are as the squares on corresponding sides.

In a right-angled triangle the rectilineal figure described on the hypotenuse is equal to the sum of the similar and similarly described figures on the other two sides.

If three lines be proportional, the first is to the third as the figure on the first is to a similar figure on the second.

If the straight lines joining a point to the vertices of a given polygon are divided (all externally or all internally) in the same ratio, the two points of division are the vertices of a similar polygon.

Two similar polygons may be so placed that the lines adjoining corresponding points are concurrent.

Triangles of equal altitude are as their bases.

In equal circles, angles, whether at the centres or circumferences, are proportional to the arcs on which they stand.

If P is any point on the circumscribing circle of a triangle, ABC, and PL, PM, PN are perpendicular to BC, CA, AB, respectively, LNM is a straight line.

A point P moves so that the ration of its distance from two fixed points Q and R, is constant; prove that the locus of P is a circle.

## Areas.

Area of a circle.

Area of a sector of a circle.

Area of a segment of a circle.

Use of Squared Paper.

Marking points.

Finding areas of rectilinear and curvilinear figures.

Examples of plotting loci; in particular, the ellipse, hyperbola, and parabola.

Examples of loci and envelopes.

Deductions and Applications.

Deductions from and simple applications of the constructions and theorems given above.

*Text-book:*—Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry, pp. 202-212, 266-269, 280-310, 319-322, and also in Godfrey and Siddons, pp. 143-153 and 288-294.

An option will be set in Geometry on the work prescribed for Honour Matriculation in the Province of Ontario.

*Trigonometry.*—Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I to XII; Hall and Knight's Trigonometry, Chaps I to XII, inclusive, omitting Chap. V.; or as in similar text-books.

Geometry and Trigonometry will be included in one examination paper.

**Chemistry.**

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc.

*Text-book:*—"Elementary Chemistry for High Schools," by Nevil Norton Evans (Educational Book Company, Limited, Toronto), Chaps. I to XVI inclusive.

One examination paper.

**Physics.**

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

*Text-book recommended:*—High School Physics, by Merchant and Chant (old or revised edition), Parts I, II, III, IV, and VI, or the equivalent in other text-books.

One examination paper.

**Physical Geography.**

Tarr's New Physical Geography, Chaps. I to XIV and Appendices A to H, inclusive.

One examination paper.

**Botany.**

Candidates will be examined on the following schedule, both parts:—

PART A.

*The Plant Cell:*—the cell-wall; the cytoplasm; the nucleus; the chloroplasts in green cells; movements of cytoplasm.

*Seeds:* structure; modifications which aid in dispersal; nature of the stored food; the digestion of foods by means of enzymes; germination.

*Seedlings:* different types; the relation of growth to temperature, light and moisture.

*Roots:* structure; region of growth; osmosis; the absorption of water and solutions of mineral nutrients; modifications, especially in connection with the storage of foods.

*Stems:* structure of the principal types; growth in length and thickness; the transfer of water and of mineral nutrients from roots to leaves; the transfer of prepared foods from leaves to other parts of a plant; the storage of food in stems; the making of maple sugar; climbing and twining stems; other modifications of stems; pruning.

*Leaves:* structure; photosynthesis; transpiration; adjustments to light; daily movements; modifications.

*Respiration:* Experiments as in Eikenberry.

*Buds.*

*Propagation by vegetative or asexual means, both natural and artificial:* tubers; bulbs; stolons; runners; grafting; layering; budding.

*Flowers:* structure and arrangement of organs in the principal types; the functions of the different parts; self-pollination and cross-pollination; fertilization.

*Fruits:* structure of the principal types; modifications which assist in dispersal.

*Plant Societies and special adaptations to environment:*

*Forests:* forestry; timbers.

PART B.

A study of the principal groups of plants, emphasizing the evolution of complex from simple forms, the division of labor and the evolution of organs, the origin and evolution of sex and certain economic relations.

*Bacteria:* form, size, structure, motility, reproduction; relation to soil fertility; the root-nodules of the pea family and rotation of crops;

relation to decay; relation to dairy products, sterilization and canning; relation to disease.

*Fresh water algæ:*

1. Pleurococcus, a unicellular green plant found growing on tree trunks, undifferentiated, without sexual reproduction, increasing by fission only.

2. Spirogyra, a filamentous green plant with a very simple type of sexual reproduction by means of similar germ-cells.

3. Oedogonium, a filamentous green plant with a higher type of sexual reproduction, by means of differentiated ova and sperms.

*Higher fungi:*—A black bread mold (Rhizopus); a downy mildew; the yeast plant and alcoholic fermentation; a blue mold; the corn-smut; wheat-rust; a mushroom; a wood-destroying fungus. In connection with the fungi, consideration is to be given to parasitism and saprophytism, the relations of dependent plants and their hosts; and common plant diseases and their prevention.

*Lichens:* one common lichen such as Parmelia, Umbilicaria Cladonia. Symbiosis.

*Liverworts:* structure; life-history and alternation of generations; the origin of epidermis and stomata; the progressive development of the sporophyte, using Riccia, Marchantia and Anthoceros.

*Mosses:*—life-history and structure of a common moss, such as Polytrichum; peat-bogs and peat.

*The Ferns and their Allies* (Pteridophytes): structure and life-histories of a fern, an equisetum, a lycopod and a selaginella; the origin of roots and the development of a fibro-vascular system; alternation of generations and the increasing importance of the sporophyte; Pteridophytes of past ages; coal.

*Seed-plants:*—

1. Gymnosperms:—structure and life-history of a pine; the origin of the seed-habit; pulp; timber; gymnosperms of past ages.

2. Angiosperms:—the structure and life-history of at least one monocotyledon, for example, the trillium, and of one dicotyledon such as the bean.

3. A brief study of leading agricultural and horticultural plants.

*Regional distribution.*

*Plant-breeding:* A brief consideration of the underlying principles and methods.

*Text-books:*—"Practical Botany," by Bergen and Caldwell, to be used with "Problems in Botany," by W. E. Eikenberry, a laboratory manual for the guidance of teachers. Any other modern text-book covering similar ground may, however, be used.

One examination paper.

## SENIOR MATRICULATION.

(*1*) *For admission to Second Year Arts* (*B.A. Course*).

SUBJECTS OF EXAMINATION.

**English.**
**Latin** *or* **Greek.**
**Mathematics** *or* **a third foreign language.**
Any three of the following:—
1. **History.**
2. **Latin** *or* **Greek** (the one not already taken).
3. **French.**
4. **German.**
5. **Science (Physics** *or* **Chemistry** *or* **Biology).**

Candidates cannot substitute a third foreign language for Mathematics unless they have passed in the Mathematics prescribed for Junior Matriculation.

(*2*) *For admission to Second Year Arts* (*B.Sc. Course*).

1. **Chemistry.**
2. **English.**
3. **French.**
4. **German.**
5. **Mathematics.**
6. **Physics.**

This examination may be taken in two parts, but a candidate must complete the requirements within two years from the date of the first attempt.

REQUIREMENTS IN EACH SUBJECT.

(*For the Years 1925 and 1926.*)

**Biology.**

*Text-books:*—Conn, H. W., (Silver, Burdett & Co.), Chaps. 1 to 10, inclusive, and Spirogyra, Mucor, and a fern.

In addition, a certificate will be required, signed by the Headmaster of the school attended, to the effect that the candidate had regularly carried out the necessary laboratory work on the course indicated.

**Chemistry.**

*Text-books:*—Alex. Smith, General Chemistry; or Macpherson and Henderson, General Chemistry, as for Second Year Arts.

**English.**

*Composition.*—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination, it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Carpenter's Rhetoric and English Composition (Macmillan) is recommended as a suitable text-book.

*Literature.*—The examination will be based on the following texts:—Chaucer's Prologue to the Canterbury Tales; Spenser's Faerie Queene, Book 1, Cantos 1 and 2; Shakespeare's Macbeth and As You Like It; Milton's Minor Poems (L'Allegro, II Penseroso, Lycidas and Comus); and Bunyan's Pilgrim's Progress, Part I.

Candidates will also be expected to read Long's English Literature (Ginn & Co.), Chapters I-VII, inclusive, with special emphasis on the portions most closely connected with the foregoing list of books.

**French.**

(1) *For B.A. Course.*

Vreeland & Koren, French Syntax and Composition (Holt); Super, Histoire de France (Holt); About, Roi des Montagnes (Heath); Erckmann-Chatrian, Waterloo (Heath); Mérimée, Quatre Contes (Holt); Bruce, Récit et Contes de la Guerre de 1870 (Holt); Augier, Le Gendre de Monsieur Poirier (Heath.)

(2) *For B.Sc. Course.*

The requirements for Junior Matriculation as on page 64, and in addition, Bowen's First Scientific French Reader (Heath).

**German.**

(1) *For the B.A. Course.*

Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Heyse, Die Blinden (Holt); Stern, Hauff Die Karavane (Macmillan); Storm, In St. Jurgen (Holt).

(2) *For the B.Sc. Course.*

The requirements for Junior Matriculation (page 65), or the course in Beginners German (see page 170).

**Greek.**

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested others may be used.

The examination will include a paper on grammar, composition, and sight translation.

One of the following books is recommended for grammar:—First Greek Grammar, Rutherford (Macmillan); Goodwin's Greek Grammar (Ginn & Co.).

**History.**

Either (1) Greek and Roman History from 500 B.C. to 476 A.D.

*Text-books recommended:*—Bury, History of Greece (Macmillan); Pelham, Outlines of Roman History (Rivington); Stuart Jones, The Roman Empire (F. Unwin); Herodotus VII and VIII (Everyman); Plutarch, Lives of Pericles, Fabius Cunctator, Caius Gracchus, Marius, Cæsar; Gibbon, chap. I. (Everyman.)

Or (2) English History from the Conquest to 1900.

*Text-Books recommended:*—Green's Short History; Keating and Frazer, History of England for Schools, with Documents, &c. (Black); G. B. Adams, Introduction to Constitutional History of England; Seeley, Expansion of England.

**Latin.**

Virgil, Aeneid III (Sidgwick, Camb. Univ. Press, edition with vocabulary); and Cicero, In Catilinam I, III, IV.

The examination will include a paper on grammar, composition, and sight translation.

The grammar recommended is New Latin Grammar by Sonnenschein (Oxford Clarendon Press.)

**Mathematics.**

*Plane and Solid Geometry.*—The equivalent of Books IV, VI and XI of Euclid, with suplementary matter from Hall and Stevens' Euclid.

*Algebra.*—Hall and Knight's Elementary Algebra (omitting chapters 40-42, inclusive), or the same subject matter in similar text-books.

*Trigonometry.*—Hall and Knight's Elementary Trigonometry to page 210 and chapter 19; nature and use of logarithms (Bottomley's four-figure tables.)

**Physics.**

A general knowledge of the more important principles of elementary physics will be required.

*Text-book:*—Kimball, College Physics (Henry Holt & Co., New York, 1912.)

The student's notebook, setting forth his own laboratory work, certified by the Instructor and Headmaster of the School, must be forwarded to the Registrar for the examiner's valuation. Unless this is done, an examination on practical physics will have to be taken.

The requirements for admission to the Faculties of Law, Medicine and Dentistry are as follows:—

*Faculty of Law.*—Two years in Arts with Junior Matriculation Latin compulsory.

Candidates who intend to practise law or to be admitted to the notarial profession in the Province of Quebec are referred to the statutory requirements as given in the special bulletin of the Faculty. If they are not graduates they should pass the examination for admission to study required by the Council of the Bar or by the Board of Notaries, as the case may be, before seeking to enter.

*Faculty of Medicine.*—Two pre-medical years with Junior Matriculation Physics and Latin compulsory. These pre-medical years must include two years of Chemistry, two of English and one of Physics and Biology, the instruction in the last two named subjects and in the Second Year Chemistry having special reference to the subsequent Medical studies. The other subjects are to be of a general cultural character.

Those who intend to practise medicine in any of the Provinces of Canada will obtain information regarding registration and admission to study by corresponding with the Registrars of the several Provincial Medical Councils. (For names, see Announcement of the Faculty of Medicine.)

*Faculty of Dentistry.*—(a) For those who intend to practise in the Province of Quebec two years in Arts in a recognized university, or a certificate of having satisfied the requirements of the College of Dental Surgeons of the Province for admission to study; (b) For all others, a certificate of registration from the Dental Board of any other province or any state or country.

Information regarding admission to the study and practice of dentistry in the several provinces will be found in the Dental Announcement.

### SENIOR MATRICULATION EXAMINATION FEES.

| | |
|---|---|
| For an examination in seven or more papers..... | $15.00 |
| (For an examination at a local centre where not more than four candidates are writing, the fee will be determined by the Registrar.) ..... | |
| For an examination in from three to six papers..... | 9.00 |
| For an examination in one or two papers..... | 4.00 |

### ADMISSION TO ADVANCED STANDING.

A student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a Calendar of the University in which he had previously studied, together with a complete statement of the course he has followed and a certificate of the standing gained therein.

The Faculty concerned, if otherwise satisfied, will decide what examination, if any, or what other conditions may be necessary before admitting the candidate.

### PHYSICAL EXAMINATION, VACCINATION AND HEALTH.

In order to promote as far as possible the physical welfare of the student body, every student, coming to the University for the first time, will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of the Second Year, as well as those of all years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration.

By such examination physical defects and weaknesses may be discovered. If such defects and weaknesses are amenable to treatment by corrective gymnastics, special exercise will be prescribed and instruction provided. The students will be advised as to what forms of exercise will be likely to prove beneficial or harmful.

Students who do not present themselves for this examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

Re-examinations will be held frequently throughout the session for those students who are of low category, or who are suffering from physical disabilities.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the medical examiner.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students, will be distributed at the opening of the session.

### AGE OF ADMISSION.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year courses in Arts, Applied Science or Medicine, or under the age of seventeen to the Second Year, and no student under the age of eighteen is admitted to the course in Law.

# REGISTRATION AND ATTENDANCE.

## 1. REGISTRATION.

Students will register for the Session 1924-25 as follows:—

| | |
|---|---|
| Students in Law and Music | Registrar's Office, Sept. 8th-13th. |
| Students in Medicine, Dentistry and Pharmacy. | " " " 15th-20th. |
| Students in Arts, First Year | " " " 29th and 30th. |
| Students in Arts, other Years | Molson Hall, Sept. 29th and 30th. |
| Students in Applied Science, First Year. | Registrar's Office, Sept. 22nd-27th. |
| Students in Applied Science, other Years. | Engineering Building, Sept. 29th and 30th. |
| All other Students. | Registrar's Office, Sept. 22nd-30th. |

The complete regulations regarding registration are as under:—

1. Candidates entering on any course of study in the University, whether as undergraduates, conditioned undergraduates, partial students or graduate students, are required to attend at the office of the Registrar some time during the seven week days preceding the commencment of lectures, in order to furnish the information necessary for the University records, and to register for the particular classes which they wish to attend.

In the case of the Faculty of Arts, however, the registration of First Year undergraduates and conditioned undergraduates will be restricted to the two days appointed for the registration of students who had been in attendance before, as specified in Section 2.

2. On two special days during the week before the opening of the session, students who had been previously enrolled in Arts or Applied

Science shall register for particular subjects in such place, or places, as may be designated by the Registrar, it being understood, however, that students in Applied Science who have completed the work of the lower year, or years, will be free to register in the Registrar's office during the three preceding days. These special days must be so selected that at least one week-day shall intervene between the last day for registration and the commencement of lectures.

In the case of students previously enrolled in the Faculties of Law, Medicine, Dentistry or Music, registration will be carried out in the Registrar's office during the seven week days, preceding the commencement of lectures in the Faculty concerned.

3. Students of all years above the First will be allowed to register after the official registration days only on payment of a fee of $5.00 during the first week of the session, and of $10.00 during the second. After the fifteenth day of the session no student will be admitted, except by special permission of the Faculty concerned.

This fee will not be refunded, except for satisfactory reasons and by authorization of the Faculty concerned.

4. No student will be allowed to register for a course from which he is barred by the matriculation regulations or the rules of the Faculty, except with the permission of the Matriculation Board or the Registration Committee of that Faculty, or (in the absence of such a committee) the Dean, or his authorized representative, as the case may be.

5. Upon registering, each student will be given cards of admission to the courses registered for, on presentation of which to the several instructors, his name will be entered on the class registers, or notification will be sent to the instructors by the Registrar, as may be found most convenient.

6. Students desiring to make changes in their choice of studies must make application to the Registrar to do so on a regular form. If this is in accordance with the regulations the change, or changes, will be made, otherwise the applicant must receive the endorsation of the Registration Commitee or the Dean, as the case may be, whereupon due notice will be sent to all parties concerned.

## 2. ATTENDANCE.

1. Students are required to attend at least seven-eighths of the total number of lectures in any one course.* Those whose unexcused absences exceed one-eighth of the total number of lectures in a course shall not be permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth of the total number of lectures in any course must repeat the work in that course.

Excuses on the ground of illness or domestic affliction shall be dealt with only by the Deans of the respective Faculties.

It is to be clearly understood that excuses for absences in excess of one-eighth will be entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates will be filed, and, if acceptable, the Dean shall give the student a statement certifying to the absences covered.

2. A record shall be kept by each professor or lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of the Faculty concerned. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. Lectures will commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will count as one absence. Lectures end at five minutes before the hour.

In cases where it is impracticable to record late attendance, students who are not present at the commencement of these lectures will be marked absent.

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*Physical education is included under this regulation.

# SCHOLARSHIPS, MEDALS AND PRIZES.

## ENTRANCE SCHOLARSHIPS.

### The P. S. Ross Exhibition.

This exhibition of the value of $100.00, was founded by Mr. P. D Ross, B.A.Sc., in memory of his late father, Mr. P. S. Ross, and is given through the Ottawa Valley Graduates' Society. It is awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty, who obtains the highest percentage at the June matriculation examination, and attends the University during the ensuing session. Candidates must apply before July 1st.

### The Ottawa Valley Graduates' Society's Exhibition.

This exhibition, of the value of $100, will be awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty who obtains the second highest percentage at the June matriculation examination and attends the University during the ensuing session. Applications must be made before July 1st.

### The Sidney J. Hodgson Exhibitions.

These exhibitions were founded by Arthur J. Hodgson, Esq., in memory of his late son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. One of these exhibitions is of the value of $125, tenable in the Faculty of Arts, and another of the value of $300, tenable in the Faculty of Applied Science or of Medicine. They are open to pupils of the Westmount High School who have been in attendance for at least one year, and will be awarded on the result of the June matriculation examination to the two pupils who obtain the highest percentage on the subjects required for entrance to the Faculty of Arts, Applied Science or Medicine, as the case may be, and who attend the University during the ensuing session, provided however, that they have not been awarded another exhibition of higher value.

### Bursaries Granted by the Imperial Order of the Daughters of the Empire.

These bursaries are of the annual value of $250.00, are tenable for four years at any university and are open to the sons and daughters of deceased and permanently disabled soldiers and sailors. One is available for each Province each year.

Full information can be obtained by writing to the Head Office of the Order for Canada, 238 Bloor Street East, Toronto, Ont.

### Scholarship Granted by the Graduates' Society of the District of Bedford.

This scholarship, of the value of $120, will be awarded annually to a "matriculated student in Arts whose parents reside in the District of Bedford, and whose candidature has been approved by a committee of the Society."

### Narcissa Farrand (Mrs. N. Pettes) Scholarship.

This scholarship, of the value of $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, will be awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts matriculation examination in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination. Intending competitors must apply to the Registrar before July 1st each year.

### The Trafalgar Scholarship.

This scholarship was founded in 1913 by certain friends and former pupils of Miss Grace Fairley, to signalize her long and faithful service to education in Montreal, and particularly as head of the Trafalgar Institute. It is of the value of $135, is tenable for one year only, and will be awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June Matriculation examination and matriculates as an undergraduate in the Faculty of Arts.

### Scholarship for Holders of Intermediate Diplomas.

A scholarship of $150 is offered annually in the Faculty of Arts to holders of Intermediate diplomas obtained after a course of study in Macdonald College, under the following conditions:—

(1) Candidates must apply through the Dean of the School for Teachers before May 1st.

(2) They must satisfy the entrance requirements of the Faculty of Arts and declare their intention to proceed to a First Class High School diploma following the course prescribed by the University.

The scholarship will be awarded on the academic subjects of the examination for the Intermediate diploma; but although the practice marks will not be taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a University course will be considered. In case there is no applicant from the graduating class in any year, applications from graduates of previous years will be considered on their merits.

Holders of this scholarship will be permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

### The Sir William Macdonald Entrance Scholarships in Arts.

The following scholarships, endowed by the late Sir William Macdonald, tenable in the Faculty of Arts, and open to men only, will be offered for competition in June each year:—

Five scholarships, of the value of $150.00 each (three open only to candidates not residing on the Island of Montreal), will be awarded on the result of the matriculation examination in June.

Application must be made before July 1st.

### University Entrance Scholarships in Arts.

Three scholarships of the value of $100 each and two of the value of $75 each (one of each value open only to candidates not residing on Montreal Island) will be offered to candidates for entrance to the Faculty of Arts, and will be awarded on the result of the matriculation examination in June.

Application must be made before July 1st.

### Royal Victoria College Entrance Scholarships.

Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200 and one of $100. These will be awarded on the result of the matriculation examination. Application must be made to the Registrar before July 1st.

### The Hon. Robert Jones Scholarship.

THE HON. ROBERT JONES SCHOLARSHIP, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculties of Arts and Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Arts. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

### The Robert Bruce Bursaries and Scholarships.

Under the will of the late Robert Bruce, of the City of Quebec, provision has been made for the establishment of Bursaries and Scholarships in McGill University.

The Bursaries are of $100 in value, and will be open to "young men and women of promising abilities but of straitened circumstances who have qualified for entrance and are taking a course of study in Arts or Science."

Two sets of Scholarships have also been established; one open to candidates for entrance to the University, of the value of $100, tenable for one year, and to be awarded for high standing at the Matriculation Examination; and the other for high standing in the examinations at the end of the First Year. The latter will be of the value of $100 a year for three years, or as much of that time as is necessary for the student to complete his course.

For the first twenty-five years students of Scottish extraction will be given the preference.

### The Isabella C. MacRae Scholarship.

By the bequest of $3,021.17 from the late Isabella C. MacRae, a Scholarship has been founded, open to residents of Maxville, Ont. who have satisfied the requirements for entrance to McGill University. Should there be no applicants from this locality for six years, the Scholarship will be open to any resident of Ontario.

### The Lord Atholstan Scholarship.

1. This scholarship of the value of $1,000 has been donated by Right Honourable Lord Atholstan for competition among the pupils of Huntingdon Academy who have taken their full high school course of study in that institution. It will be awarded to the pupil in this class who obtains the highest standing at the June Matriculation Examination for entrance to any Faculty and who attends McGill University during the subsequent session.

2. The holder of the scholarship shall receive $250 per year for four years, but the scholarship shall be forfeited at any stage through failure to satisfy the regulations of the University regarding advancement from year to year. The amount of the annual scholarship shall be paid to the scholar in four equal instalments.

## SCHOLARSHIPS IN ARTS.

### GENERAL REGULATIONS.

1. No student can be awarded more than one scholarship in Group C or D.

2. Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

3. If in any College Year there be not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.

4. A successful candidate must, in order to retain his scholarship, proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in four instalments, viz.:—In October, December, February and April, about the 20th of each month.

### GROUP A.—ENTRANCE SCHOLARSHIPS.

For scholarships awarded on the result of the Matriculation Examination see pages 83 to 86.

### GROUP B.—SCHOLARSHIPS IN ARTS AWARDED ON THE RESULT OF THE SESSIONAL EXAMINATIONS.

THE JANE REDPATH SCHOLARSHIP.—Founded by the late Mrs. Redpath, of Terrace Bank, Montreal, for the maintenance of a scholarship in Arts. It will be awarded on the result of the sessional examination of the First Year to the student who makes the highest average on the year's work. Value of scholarship, $115.00.

THE BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value, $115.00

THE JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the close of the war, in which he had served with distinction. This scholarship will be awarded each year to a male student of the Third Year Arts who has "given proof of scholarship and ability as an honour student in the subject of English and Philosophy." It is of the value of $275.00.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship has been founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of the First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916. It is of the value of $250.00 and will be awarded annually on the result of the examination in English and Economics of the Second Year, and is subject to the conditions that the holder take an honour course in English, with Economics as a minor subject in his Third Year, or the Honour Course in English and Economics, should such be established. It is open to male students in the Faculty of Arts professing the Christian religion.

MACKENZIE SCHOLARSHIPS.—Four scholarships, known as the Mackenzie Scholarships, are awarded annually in the Department of Economics and Political Science. Two of these, of the value respectively of $100 and $50, tenable for one year, are awarded on the result of the Second Year examination on Political Economy (Economics, Course 1), but no student is eligible who has not completed the work of this Year. The tenure of the scholarships is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Third Year. The other two scholarships, of the value respectively of $100 and $50, are awarded on the result of the honour examination of the Third Year in Economics and Political Science. The scholarships will not be awarded except on satisfactory evidence of merit; their tenure is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Fourth Year.

A Fourth Year Mackenzie scholarship may be held by a student who holds another; a Third Year scholarship cannot.

THE SIR WILLIAM DAWSON SCHOLARSHIP.—Given by the New York Graduates Society, value $60.00.

THE DR. BARCLAY SCHOLARSHIP.—Awarded in the Classical Department, value $50.00.

THE HOUSTON SCHOLARSHIP.—Founded by the will of the late Thomas Houston, for the purpose of establishing a scholarship for French students studying for the Presbyterian ministry. It is open only to undergraduates in the Faculty of Arts under the above restriction and will be awarded on the result of the sessional examination without regard to Year. The value of the scholarship is about $60.00.

PREBYTERIAN COLLEGE SCHOLARSHIPS.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts who are registered at the Presbyterian College as in training for the study of theology with a view to the ministry and who have creditably passed the sessional examinations. For further information, application should be made to the Registrar, the Presbyterian College, Montreal.

CONGREGATIONAL COLLEGE SCHOLARSHIPS.—The Board of Governors of the Congregational College provides maintenance scholarships for its students taking the Arts course in McGill, also fee scholarships for creditable standing in the sessional examinations, as well as special prizes as rewards for superior excellence. For particulars, application should be made to the Registrar, The Congregational College, Montreal.

GROUP C.—SECOND YEAR SCHOLARSHIPS IN ARTS, AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER.†

Six scholarships, ranging in value from $100 to $150 each, will be offered for competition to students entering the Second Year, in September, 1924.

The subjects of examination are divided into two groups as follows:

Group I.—Greek, Latin, French, German, English, History.
Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two scholarships of $150 each and two of $100 each are offered to candidates taking their major subjects from Group I, and one of $150 and one of $100 to candidates taking their major subjects from Group II.

One of these scholarships is "The Charles Alexander Scholarship," for men only, and is awarded for "classics and other subjects."

The above scholarships are open to all undergraduates in Arts, whether they are taking the B.A. or the B.Sc. course.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT.

**Greek.**

(*As a Major Subject*)

I. (a) Homer, Odyssey I.
(b) Euripides, Hecuba.
II. Composition and translation at sight.
III. History:—Edmonds, Greek History for Schools, (Camb. Univ. Press), to the end of the war with Persia.

† Second Year scholarships are open to students who have passed the First Year sessional examinations, provided that not more than two sessions have elapsed since their admission to the University.

(*As a Minor Subject*)

The same as above, omitting I (b) and III.

**Latin.**

(*As a Major Subject*)

I. (a) Cicero, Pro Roscio Amerino, Chaps. I to XXXIII, inclusive.
(b) Ovid, Metamorphoses XI.
II. Composition and translation at sight.
III. Roman History:—How and Leigh, from the foundation of Rome to the end of the Second Punic War.

(*As a Minor Subject*)

The same as above, omitting I (b) and III.

**French.**

(*As a Major Subject*)

(a) Grammar; (b) translation at sight of an English passage into French; (c) French essay on a prescribed subject; (d) translation of passages taken from the prescribed texts; (e) a critical study of the following texts, tested by questions in the French language to be answered in French:—

Corneille, Cinna (Holt); Molière, Le Malade Imaginaire (Macmillan); Thiers, Expédition de Bonaparte en Egypte (Holt); Loti, Pêcheurs d'Islande (Rivington).

(*As a Minor Subject*)

The same as above, omitting Molière and Thiers.

**German.**

(*As a Major Subject*)

(a) Grammar; (b) translation at sight from German into English, and from English into German; (c) a critical study and translation of the following texts:—

Schiller, Maria Stuart (Heath & Co.); Fulda, Talisman (Heath); Hauff, Lichtenstein (Heath).

(*As a Minor Subject*)

The same as above, omitting Schiller.

**English.**

(*As a Major Subject*)

Shakspere, Twelfth Night (ed. Macmillan); Macaulay, History of England, Vol. I. Chap. 3 (England in 1685); Scott, Marmion; Thackeray, Pendennis; George Eliot, The Mill on the Floss; Tennyson, The Coming of Arthur, The Last Tournament.

(*As a Minor Subject*)

The Scott and Tennyson prescribed above.

**History.**

(*As a Major Subject*)

Herodotus (Everyman Series); Plutarch's Lives of Tiberius and Caius Gracchus, Cicero and Brutus (Everyman Series, Vol. III); Gibbon, Vol. I (Everyman Series).

(*As a Minor Subject*)

Gibbon, Vol. I. (Everyman Series).

**Mathematics.**

(*As a Major Subject*)

*Plane Geometry.*—Godfrey and Siddon's Modern Geometry, omitting appendices.

*Algebra.*—Hall and Knight's Algebra as in the advanced course of the First Year (1923-24); also Fine's College Algebra (Ginn & Co.), pages 424 to 511.

*Plane Trigonometry.*—As in the advanced course of the First Year (Course 2—1923-24); also Carslaw's Trigonometry (Macmillan & Co.), except Chap. 13.

(*As a Minor Subject*)

The mathematics of the First Year ordinary course (1923-24).

**Physics.**

(*As a Major Subject*)

Duncan and Starling's "Heat, Light and Sound" (Macmillan); and Bragg's "The World of Sound" (Bell).

(*As a Minor Subject*)

Kimball's "College Physics" (Henry Holt & Co.)

GROUP D.—THIRD YEAR SCHOLARSHIPS IN ARTS, AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER.*

The following five scholarships, of the value of $300 ($150 per year for two years) will be open for competition to students entering the Third Year in September, 1924.

One for English and History and another language.

One for Latin or Greek and another language† (English excepted).

One for French or German and another language† (English excepted).

Two for Mathematics and Physics.

Of the above five scholarships two are known as "Sir William Macdonald Scholarships" and are open to men only.

In addition to the above, the three following scholarships, of the value of $150.00 each, are also offered for competition to students entering the Third Year:—

One for Philosophy and Psychology.

One for Chemistry.

Of the above two scholarships, one is called a "Sir William Macdonald Scholarship" and is open to men only.

One for Biology.

This scholarship shall be called "The Major Hiram Mills Scholarship." It is open to both men and women.

A bursary of $25 will be awarded to that one of the holders of these three scholarships who is considered most deserving on entering the Fourth Year.

An exhibition of $80, to be known as the Hannah Willard Lyman Exhibition, will also be awarded annually in the Fourth Year, to the best woman student who may have been the holder of a Third Year scholarship in biology or chemistry or philosophy. Should there be no sufficiently deserving candidate, this exhibition may be awarded at the beginning of the Third Year to a woman candidate who may fail to obtain one of the five regular scholarships offered to Third Year students.

In the award of Third Year scholarships, the Second Year standing of candidates, in the subjects selected, will be taken into account.

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of subjects may, at the discretion

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* Third Year scholarships are open to students who have passed the Second Year sessional examination, provided that not more than three sessions have elapsed since their admission to the University; and also to candidates who have obtained what the Faculty may deem equivalent standing in some other university, provided that application be made before the end of the session preceding the examination. Double course students (Arts and Applied Science or Arts and Medicine) are not eligible for these scholarships.

† The language not chosen in the first instance may be taken as the second language.

of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT.

**Greek.**

Prose composition; translation at sight.

Study of the following texts:—Euripides, Hippolytus; Homer, Odyssey II and III.

History:—Edmonds, Greek History for Schools (Camb. Univ. Press), from the end of the war with Persia to the death of Alexander.

**Latin.**

Prose composition; translation at sight.

Study of the following texts:—Cicero, Pro Roscio Amerino; Virgil, Aeneid VI; Horace, Satire I.

Roman History:—How and Leigh, from the end of the Second Punic War to the death of Cæsar.

**English and History.**

*Literature.*—Shakspere, Hamlet (ed. Deighton, Macmillan); Milton, Paradise Lost, Books I and II, ed. Macmillan (Macmillan); Ruskin, Sesame and Lilies, Crown of Wild Olive; Arnold, Essays in Criticism, Second Series (Macmillan's Colonial Library).

*History.*—Either (1) Dicey, Law of the Constitution and Bagehot, The English Constitution; *or*

(2) The following portions of Short & Doughty's *Canadian Constitutional Documents,* 1759, Part i. (2nd edition 1918):—

pp. 47-96, Murray's reports, etc.;

pp. 173-257, Instructions to Murray and various reports, etc.;

pp. 301-324, Instructions to Carleton;

pp. 533-581, Draughts, etc., for Quebec Act of 1774.

*Composition.*—The candidate will be required to write an essay on some subject connected with the literature or history prescribed. High marks will be given for this subject.

**French.**

(a) Translation at sight from French into English, and from English into French; (b) translation of passages from the prescribed texts; (c) questions on the subject matter of the following texts, and the lives of their authors:—Molière, Le Médecin Malgré Lui (Heath); Racine, Phèdre (Heath); Rostand, Cyrano de Bergerac (Holt); Taine, L'Ancien Régime (Heath); Hugo, Notre Dame de Paris (Ginn).

The entire examination will be held in the French language.

**German.**

(a) Translation at sight from German into English, and from English into German; (b) critical study and translation of the following texts:—Goethe, Dichtung and Wahrheit, Books I, II, III (Heath); Schiller, Das Lied von der Glocke (Holt), and Wallenstein's Lager (Holt); Eichendorff, Aus dem Leben eines Taugenichts (Holt); Heine, Prose Selections (Macmillan).

**Mathematics and Physics.**

*Calculus.*—Lamb's Infinitesimal Calculus, Chaps. II-VIII, inclusive, omitting sections 36-43, 46, 63, 65, 67, 70, 71, 81, 86, 90, 92, 93, 95, 97, 102-114, 118. A general knowledge of the terms, "continuous," "discontinuous" and "limit" (Chap. I.) will be expected of candidates.

*Analytic Geometry.*—C. Smith's Conic Sections, Chaps. I to IX., inclusive, Arts, 187, 188, 222-229, inclusive.

*Higher Trigonometry.*—Carslaw's Plane Trigonometry.

*Physics.*—Maxwell's "Matter and Motion," excluding appendix (S.P.C.K.) and Maxwell's Theory of Heat (Longmans).

In addition to the above scholarships, three of the value of $40 each will be offered as follows:—

One for Philosophy and Phychology.
One for Chemistry.
One for Biology.

**Philosophy and Psychology.**

Sellar's Essentials of Logic, omitting Chaps. 20 to 22, inclusive; Mellone, Text-book of Logic (10th edition), chaps. 8 and 9, inclusive; Warren, Human Psychology; Berkeley's "Three Dialogues between Hylas and Philonous" (Open Court Philosophical Classics).

**Chemistry.**

*Chemistry.*—Modern Inorganic Chemistry (J. W. Mellor, 1912 edit.)
*Subject of Essay.*—"Aqueous Solution."

**Biology.**

*Animal Biology.*—Woodruff, Foundations of Biology (Macmillan, New York, 1923).

*Plant Biology.*—Candidates for this scholarship will be expected to pursue an independent study of classification of plants during the summer months. An original collection of 75 species must be made and properly identified, and must form a basis of an understanding of the general interrelations of the larger groupings. A few lectures will be given during the latter part of the session for the benefit of those who wish to undertake this work. These will deal with the rationale of taxonomy

and methods of collection and study. Advice as to the proper literature will also be given at this time.

## PRIZES IN ARTS.

1. The Neil Stewart Hebrew Prize.—An annual prize of $15 is open to all undergraduates and graduates of this University, and also to graduates of any other university, who are students of theology in some college affiliated to this University. It will be awarded on the result of the sessional examination in Hebrew of the Second Year.

The prize, founded by the late Rev. C. C. Stewart, M.A., and terminated by his death, was re-established by the liberality of the late Neil Stewart, Esq., of Vankleek Hill.

2. Early English Text Society's Prize.—This prize, the annual gift of the Early English Text Society, will be awarded for proficiency in the subjects of the language group in the English honour curriculum of the Third and Fourth Years.

3. New Shakespeare Society's Prize.—This prize, the annual gift of the New Shakespeare Society, open to graduates and undergraduates, will be awarded for a critical knowledge of the following plays of Shakespeare:—Hamlet, Macbeth, Othello, King Lear.

4. Charles G. Coster Memorial Prize.—This prize, of the value of $25.00, and intended as a tribute to the memory of the late Rev. Chas G. Coster, M.A., Ph.D., Principal of the Grammar School, St. John, N.B., is offered for competition by Mr. Colin H. Livingstone, B.A., to undergraduates (men and women) from the Maritime Provinces (Nova Scotia, New Brunswick and Prince Edward Island) it is awarded on the decision of the Dean of the Faculty of Arts to that student in Arts from the Maritime Provinces who shows the greatest proficiency in the examinations at the end of the session.

5. Annie Macintosh Prize.—The income of the sum of $1,130 ($425 of which was subscribed by the pupils and friends of the late Miss Annie Macintosh, and $618.97 bequeathed by the late Miss I. G. Macintosh), will be offered as a prize or prizes, to students of the Royal Victoria College in such subject, or for such work as the Faculty may determine.

6. Penhallow Prize.—The income of the sum of $1,100 collected by the Arts Undergraduates Society in 1911, will be assigned annually to the Department of Botany for a prize to be known as the "Penhallow" prize.

7. Henry Chapman Prize.—This prize, of the value of $15.00, is given in such modern languages as may be taught in the Faculty of Arts, other than English, and Hebrew shall also be included.

8. The Chester Macnaghten Prize of the value of $25.00 in books, established by Russell E. Macnaghten, Esq., M.A., in memory of his late uncle, will be awarded annually, through the University Literary and Debating Society, for reading in English.

## MEDALS IN ARTS.

Gold Medals will be awarded in the Final Honours examination to the students who take the highest honours of the first rank in the subjects stated below, and who shall have passed creditably the ordinary examination for the degree of B.A. or B.Sc., provided they have been recommended therefor to the Corporation by the Faculty, on the report of the examiners:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakespeare Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her late son, Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Romance Languages.

If there be no candidate for any medal, or if none of the candidates fulfill the required conditions, the medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

"The Byron Medal."—This Medal is given by the Greek Colony of Montreal in commemoration of the Centenary of Byron's death, April 19, 1924. It will be awarded for an Essay on a subject connected with Byron, or with Greece, or with Byron and Greece. The subject of the Essay may vary from year to year. Theses that form part of the regular work in 19th Century poetry, or History—if on a subject connected with Byron or with Greece—may be offered in competition. Essays shall not exceed ten thousand words in length. The literary quality as well as the substance of the essays will be taken into account in making the award.

For the year 1924-25, the following subjects are proposed:—(1) Byron and Greek politics; (2) Byron's influence in Europe; (3) Byron

and Greece; (4) The Greek Revival in the 19th Century; (5) The fairness of Byron's judgments; (6) Greek influence on 19th Century English poetry.

The competition is open to undergraduates and to resident graduates registered in the Department of Classics, English and History in the Graduate School. Essays must be submitted to the Department of English by April 15th.

## SCHOLARSHIPS AND PRIZES IN APPLIED SCIENCE.

### I. ENTRANCE SCHOLARSHIPS.

See pages 83 to 86.

### II. AWARDED ON THE RESULT OF SPECIAL EXAMINATIONS.

1. Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the Third Year, for proficiency in levelling and transit work.

2. Messrs. Babcock & Wilcox, Limited, offer every second year a scholarship of the value of $200.00 per annum, tenable for two years, to the best all-round man among the Engineering students who, having completed the work of the First and Second Years, is about to enter the Third Year, and who intends to make a special study of the subject of Steam Engineering. The conditions under which this scholarship is awarded may be ascertained on application to the Dean of the Faculty.

### III. AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES.

1. A British Association exhibition of $50.00 and a prize of $25.00 at the end of the Third Year, to the students who obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in Strength of Materials and Mechanics of the Third Year.

2. Three prizes of $25.00, $15.00 and $10.00, at the end of the Second Year, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Analytic Geometry, Calculus and Mechanics of the Second Year.

3. A Scott exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, at the end of the First Year to the students obtaining the highest, and the second and third highest aggre-

gate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry and Physics of the First Year.

4. Workshop Prize.—A prize of $20.00 presented by Mr. C. J. Fleet, B.A., B.C.L., for bench and lathe work in the wood-working department, open to students of not more than two terms' standing in workshop practice.

5. A prize of $50.00, presented by Mr. James Tighe, B.A.Sc., for research work in Hydraulics.

6. An exhibition offered to graduates by Mr. A. E. Childs, M.Sc., for a special research on "The flow of gas through pipes under pressure."

7. A prize of $25.00 presented by Messrs. Anglin Norcross, Ltd., to the student obtaining the highest marks in Architectural Drawing in the Second Year (No. 34) of the Department of Architecture.

8. A prize of $25.00 presented by Messrs. Anglin Norcross Ltd., to the student obtaining the highest marks in the senior class in Architectural Engineering (No. 30 or No. 31) in the Department of Architecture.

9. The Louis Robertson Prize, founded by Mr. and Mrs. John A. Robertson , in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916. To be awarded to the undergraduate student who ranks highest in Design in the Final Year of the course in Architecture.

10. A prize of $25.00 presented by P. J. Turner, Esq., to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

11. Prizes given by the Montreal Light, Heat & Power Consolidated for Fourth Year students in the Department of Electrical Engineering, amounting to $200.00.

12. The following prizes are offered for the best summer essays:—

To the students of the Civil Engineering course, a prize of $25.00, from a friend.

To the students of the Electrical Engineering course, a prize of $25.00, offered by the McGill Electrical Club.

To the students of the Metallurgical Engineering course, a prize of $25.00, presented by Milton L. Hersey, Esq., D.Sc.

To the students of the Mechanical Engineering course, a prize of $25.00, presented by the Crosby Steam Gauge & Valve Co.

To the students of the Mining Engineering course a prize of $25.00, presented by J. T. McCall, Esq.

13. There are offered each year by the Engineering Institute of Canada five student prizes of twenty-five dollars each, for the best paper in each of the branches of engineering—civil, mechanical, electrical,, mining and chemical—received from a student member of the Institute. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars from Fraser S. Keith, Secretary, 176 Mansfield Street, Montreal.

14. Three prizes, one of $25.00 and the President's gold medal, one of $15.00 and one of $10.00, are offered annually for the best papers submitted to the Canadian Institute of Mining and Metallurgy by student members of the Institute.

15. The sum of $50.00 has been voted by the Undergraduates' Society of the Faculty of Applied Science, to be given as prizes for the best papers read before the Society during the session 1924-25.

16. One Sir William Dawson Exhibition, given by the New York Graduates' Society: value, $60.00.

17. A prize of $25.00 offered by the Canadian Section of the Society of Chemical Industry is awarded for the best essay on some important phase of chemical industry. Further particulars from the Secretary of the Society.

18. Certificates of merit are given to such students as take the highest place in the sessional and degree examinations.

### IV. AWARDED AT THE DISCRETION OF THE FACULTY.

1. The Hon. Robert Jones Scholarship. The value of this scholarship and the conditions for obtaining it are as in the Faculty of Arts. See page 85.

2. The Baylis Scholarship, founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100.00, is awarded to some student who is in need of financial assistance to complete his course on entering the Second Year of the Faculty. The scholarship will be continued during the Third and Fourth Years, if the student's standing continues to be satisfactory.

Applications should be made through the Dean of the Faculty of Applied Science.

3. The late Dr. James Douglas, who was a member of the Board of Governors, provided during his lifetime for twelve, or more, tutorial

bursaries in the Faculty of Applied Science. In assigning these bursaries account will be taken of the circumstances of the applicants as well as of their academic standing.

These bursaries have a value of $100.00 per annum, and carry the obligation of giving tutorial instruction equivalent to one evening a week, to the satisfaction of the Faculty Committee. Students in the Third and Fourth Years of Applied Science are eligible.

## FELLOWSHIPS, SCHOLARSHIPS AND PRIZES IN MEDICINE.

**The A. A. Browne Memorial Fellowship.**—The sum of $10,000 has been received by the Faculty from the committee of the A. A. Browne Memorial Fund. With this sum a fellowship has been established, to be known as the "A. A. Browne Memorial Fellowship." This fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

**The James Douglas Research Fellowship.**—The sum of $25,000 has been received from Dr. James Douglas, of New York, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

**The James Douglas Studentship.**—A studentship in pathology, given by Dr. James Douglas, of New York, open to McGill graduates only, tenable for six years and of the value of $1,250 for the first year, increasing to $2,500.

**The James Cooper Fund for the Study of Internal Medicine.** This fund of $60,000 was donated in 1912 by the will of the late James Cooper of Montreal to promote research and to improve teaching in the Department of Medicine.

**The John McCrae Scholarship.**—A scholarship of approximately $600, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company as a permanent scholarship.

**The Walter J. Hoare Memorial Scholarship.**—A sum of money has been donated by Dr. Charles W. Hoare, a graduate of McGill University, as a Scholarship in the First Year Medicine, in memory of his son, Walter J. Hoare, who was killed in the Great War. This Scholarship is open to pupils of the Collegiate Institute, Windsor, Ontario, and is awarded each year for the best examination for matriculation in the Medical Faculty of McGill University.

**The John W. Flinn Research Fellowship.**—In 1921 Dr. John W. Flinn, of Prescott, Arizona, gave the sum of $5,000, to be paid in five equal annual instalments of $1,000, this sum to be used for the assistance of medical research in tuberculosis.

**The Hiram N. Vineberg Scholarship.**—This scholarship of the value of $250 will be awarded annually or biennially to a worthy student in impecunious circumstances for proficiency in Gynæcology, the award to be made by the Head of the Department.

**The Final Prize.**—A prize in books, awarded for the best examination, written and oral, in the final year. The Holmes and Wood medalists are not permitted to compete for this prize.

**The Joseph Hils Prize.** (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.).—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Clinical Therapeutics.

**The Fourth Year Prize.**—A prize in books, awarded for the best examination, written and oral, in all the branches of the Fourth Year course.

**The Third Year Prize.**—A prize in books, awarded for the best examination, written and oral, in the branches of the Third Year.

**The Joseph Morley Drake Prize.** (Founded by the late Joseph Morley Drake, M.D.)—A microscope, to be awarded to the student of the Fourth Year who obtains the highest number of marks for the examinations in Pathology and Bacteriology.

**The Second Year Prize.**—A prize in books for the best examination in all branches of the Second Year course.

**The First Year Prize.**—A prize in books for the best examination in all branches of the First Year course

## MEDALS IN MEDICINE.

**The Holmes Gold Medal,** founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., late Dean of the Faculty of Medicine, is awarded to the student of the graduating class who receives the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze medal and the money equivalent of the gold medal.

**The Wood Gold Medal,** founded by Casey A. Wood, M.D., awarded to the student of the graduating class who receives the highest aggregate number of marks in the clinical examinations of the Final

Year. The winner of the Holmes Medal and the winner of the Final Prize are not permitted to compete for this medal.

**The Sutherland Gold Medal,** founded in 1878 by the late Mrs. Sutherland, in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in general and medical chemistry, together with a creditable examination in the primary branches. The examination is held at the end of the Third Year.

## PRIZES AND SCHOLARSHIPS IN LAW.

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of $50.00 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15.00 to the Civil Law student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of $50.00, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

Other prizes may be awarded at the discretion of the Governors.

The "Macdonald Travelling Scholarship" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is the income derived from a capital sum of $20,000, and the scholar elected is required to pursue a year's study in the Law Faculty of the University of Dijon, France. The award is made at the discretion of the Faculty to a student of the graduating class who has obtained first or second class honours in the Final Examination.

Women students are not eligible for a Macdonald Scholarship so long as the law excludes them from admission to the Bar in the Province of Quebec.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. It is of the value of $120, and is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in 1925.

Students in the Faculty are eligible for election to the Rhodes Scholarships tenable at the University of Oxford for a term of three years.

## MEDALS AND PRIZES IN DENTISTRY.

*The F. A. Stevenson Gold Medal.*—Awarded to the student in the final year who stands first in the science and practice of Dentistry. The standing will be determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the whole course.

*Final Year Prize.*—A prize in books will be awarded to the final year student who stands second in the class. The standing will be determined in a manner similar to that followed in the awarding of the gold medal.

*Third Year Prizes.*—Two prizes (first and second), in books, will be awarded to the Third Year students in the science and practice of Dentistry. The method of determining the winners of these prizes will be similar to that adopted in awarding the prizes in the final year.

*Second and First Year Prizes.*—A prize in books is awarded to the student obtaining the highest standing at the Final Examinations.

## SCHOLARSHIPS IN THE SCHOOL FOR GRADUATE NURSES.

Scholarships are being offered for 1924-25 by the Association of Registered Nurses of the Province of Quebec, and a number of hospitals are providing annual scholarships for their own graduates. Among these are the Royal Victoria Hospital, Montreal General Hospital, Hamilton General Hospital, Hospital for Sick Children, Toronto, Toronto General Hospital and Winnipeg General Hospital.

The Victorian Order of Nurses for Canada offers a certain number of scholarships of $400.00 each to graduate nurses who wish to avail themselves of a post-graduate course in public health nursing at the Universities of Vancouver, B.C., Toronto and London, Ont., McGill, Montreal, Que., and Dalhousie, Halifax. Nurses accepting scholarships will be expected to remain in the service of the Victorian Order for one year upon successful completion of the course, at prevailing salaries.

## SCHOLARSHIPS—GENERAL.

1. The Rhodes Scholarship.—This scholarship is of the annual value of £300 sterling and is tenable at the University of Oxford for three years. The scholar must be a British subject, must be over 19 and under 25 years of age, and must have reached at least the end of his Sophomore or Second Year in the University.

Full particulars can be obtained from Gilbert S. Stairs, B.A., K.C., McGibbon, Mitchell, Casgrain and Stairs, 107 St. James St., Montreal,

who is the Secretary of the Selection Committee of the Province of Quebec.

2. SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of the value of £200 sterling a year, are tenable for two, or, in rare instances, three years. They are limited, according to the Report of the Commission, "to those branches of science, such as physics, mechanics and chemistry, the extension of which is especially important for our national industries." They are open to students of not less than three years' standing who have shown evidence of capacity for original research.

Three of these Scholarships are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of a certain number of Universities, among which McGill is included.

### SCHOLARSHIPS AND FELLOWSHIPS FOR GRADUATES.

1. THE GOVERNOR-GENERAL'S SILVER MEDAL (the gift of his Excellency Baron Byng of Vimy) will be awarded for graduate research work in science.

2. THE MCGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—This scholarship has been founded by the McGill Chapter of the Delta Upsilon Fraternity to perpetuate the memory of the members of that Chapter who gave their lives in the Great War.

It is open to all graduates of the University, and the following considerations will govern the award:—(a) The general scholarship of the candidate; (b) His need of financial assistance for further study; (c) The general usefulness to the community of the special branch of study he proposes to follow; (d) The likelihood that the candidate will reflect credit on the University.

The present value of the scholarship is about $750.

3. THE ALLEN OLIVER SCHOLARSHIP.—This scholarship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, B.A.,* M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The scholarship will be awarded annually to the student who stands highest in First Class Honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science in McGill University or elsewhere. The present value of the scholarship is about $650.

4. THE GRADUATE (WORKING) FELLOWSHIP, in the Department of Economics and Political Science; $800 a year. The holder of this fellowship is required to devote one-third of his time to the work of the University in the correction of junior exercises, etc.

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* Lieut. Oliver was an Honour graduate of 1915 in the Department of Economics and Political Science.

5. The Milton L. Hersey Scholarship, having a value of four hundred dollars, is open to any graduate. Preference will be given to applications from students who desire to work on the application of practical chemistry to agriculture.

6. The LeRoy Memorial Fellowship in Geology.—This fellowship was established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the Battle of Passchendaele, in October, 1917, It will be annually awarded to a worthy student who desires to proceed to post-graduate studies in Geology at McGill University. The recipient of this award may be called upon to assist in the teaching work of the Department. This Fellowship is awarded by the Head of the Department of Geology and Mineralogy in consultation with the Principal. It is of the annual value of $700.

7. The Dr. T. Sterry Hunt Research Fellowship in Chemistry. This scholarship of the value of $1,000, is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc. or Ph.D. and have shown high capacity for research.

8. Post Graduate Scholarships Granted by the Imperial Order of the Daughters of the Empire.—Nine are offered annually—one for each Province. They are of the value of $1,400.00, are tenable for one year and have been founded "to enable students to carry on studies at any university in the United Kingdom, in British and imperial history, the economics and government of the Empire and Dominion, or any subject vital to the interests of the Empire."

Full details may be obtained from the Secretary of the National Chapter of Canada, 238 Bloor Street East, Toronto, Ont.

9. University Women's Federation Scholarship.—This Scholarship of the Canadian Federation of University Women, of the value of $1000, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

The choice of the University at which the successful candidate shall pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convener of the Scholar ship Committee, Mrs. Douglas Thom, 2220, 16th Ave., Regina, Sask.

Applications must be received not later than February 1st.

10. Montreal Manufacturers' Graduate Fellowship. — This fellowship has been established by the Montreal Branch of the Canadian Manufacturers' Association with the sum of $3,375, from which

shall be paid annually for four years, a graduate fellowship of $800 and in the fifth year of a sum equal in value to the amount remaining in the fund. It shall be awarded annually to a member of the graduating class in honours in Economics and Political Science to be selected by the Head of the Department. The student receiving the Fellowship shall pursue his graduate studies for the M.A. degree in the Department and shall take as the special subject of his investigation a subject dealing with Canadian trade or industry approved by the Head of the Department and by the Chairman of the Montreal Branch of the Canadian Manufacturers' Association.

11. The Moyse Travelling Scholarships.—Two scholarships of the value of $1,500 each, to be known as The Moyse Travelling Scholarships, tenable for one year, have been founded by Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are open, primarily to graduates of the Faculty of Arts. One will be awarded for distinction in literary subjects, and the other for distinction in pure and applied science and the holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university.

Applications are to be made to the Dean of the Faculty of Arts, before the first of April each year.

12. The Province of Quebec Scholarships.—Fifteen scholarships are granted annually by the Government of the Province of Quebec to men graduates desirous of completing their studies in Europe.

Candidates are required to make application to the Principal. Applications must be supported by a recommendation from the Dean of the Faculty to which the candidate belongs or from which he has graduated, and may be supported by other recommendations. Candidates must be Canadians, bona fide residents of the Province of Quebec and not over twenty-five years of age. The limitation as to age is suspended in the case of ex-soldiers. The Province does not necessarily accept all the candidates recommended by the University.

13. A Research Scholarship of $1,200, open to members of the graduating class in Chemical Engineering, offered by the New Jersey Zinc Company, for research in rubber, under Dr. G. S. Whitby.

14. Two research and teaching fellowships, of the value of $750.00 each, have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, one endowed by the late Dr. James Douglas, and a third, of a slightly less value, is supported by graduates in Mining in the name of the late Dr. B. J. Harrington. All three fellowships are awarded annually if suitable candidates offer.

15. A research and teaching fellowship of the value of $80.00 per month during the University session is offered to students graduating in the Metallurgical Department. The student holding this fellowship is expected to spend two-thirds of his time in research and study for the M.Sc. degree, and one-third in teaching and other work for the Department.

The following Scholarships are tenable at Macdonald College:—

16. MACDONALD COLLEGE AGRICULTURAL ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP.—In memory of graduates and undergraduates of the Faculty of Agriculture who died in service during the Great War, 1914-1918; created, in connection with the McGill Centennial Campaign, 1920, through subscriptions of graduates, undergraduates, members of the staff of instructors and other friends; of a present value of about $200.00 and available to any graduate in Agriculture of Macdonald College (McGill University) for postgraduate work, in any branch pertaining to agriculture at any college or university of recognized standing. The holder of this scholarship shall be chosen by a committee appointed by the executive of the Macdonald College Agricultural Alumni Association, and application for the same, or for further information regarding it, should be addressed to:—Mr. J. Egbert McOuat, B.S.A., General Secretary, Macdonald College, P.Q.

17. MACDONALD GRADUATE SCHOLARSHIPS.—The W. C. Macdonald Reg'd. have offered ten scholarships, two to the Province of Quebec and one to each of the other provinces of the Dominion, valued at $500.00 each for the academic year, tenable at Macdonald College. The Province of Quebec scholarships are offered: one to the graduates of the University of Montreal (the Agricultural Institute, Oka) and one to the graduates of Laval University (the Agricultural School of Ste. Anne de la Pocatière). If these scholarships are not taken up by the first of July immediately preceding the academic year, they are to be at the disposal of Macdonald College. Applications should be made through the Head of the Faculty of Agriculture or Agricultural College of the Province concerned, to the Principal, Macdonald College, P.Q.

18. QUEBEC MINISTER OF AGRICULTURE GRADUATE SCHOLARSHIPS.—The Minister of Agriculture of the Province of Quebec has granted three scholarships for the session of 1924-25; one each to graduates of the Oka Agricultural Institute (University of Montreal), the School of Agriculture, Ste. Anne de la Pocatière (Laval University), and the School of Agriculture, Macdonald College (McGill University); of the value of $500.00 each, for graduate work at Macdonald College; on the understanding that the holders of such scholarships are residents of the Province of Quebec and that such scholarships shall be awarded by the Minister, upon the recommendation of the three Schools of Agriculture concerned.

# FEES.

## GENERAL REGULATIONS.

1. Fees are due and payable to the Bursar as follows:—

| | | |
|---|---|---|
| Students in Law | Sept. | 19th |
| " " Medicine | " | 24th and 25th |
| " " Dentistry and Pharmacy | " | 26th |
| " " Arts (men and women), Commerce excepted | Oct. | 2nd and 3rd |
| " " Commerce | " | 6th |
| " " Applied Science | " | 7th and 8th |
| " " School for Graduate Nurses, Social Service and the School of Physical Education | " | 9th |

Fees will also be received before October 1st.

Students who pay by instalments will be required to pay the second instalment on or before February 1st.

2. After October 10th or February 1st (in the case of those who pay by instalments) an additional fee of $2.00 will be exacted of all students in default.

3. Students registering after October 10th shall pay their fees at the time of registration, failing which they become subject to the provisions of regulation 4.

4. Immediately after October 20th, or February 5th (in the case of students who pay by instalments), the Bursar will send to the Deans of the several Faculties a list of the registered students who have not paid their fees, on receipt of which the Dean shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

5. No fees will be refunded to partial students under any circumstances.

## FEES IN ARTS.

| | |
|---|---|
| Sessional fee for the undergraduate course in Arts (This includes fee for library, gymnasium and graduation.) | $100.00 |
| By instalments:— | |
| First instalment, if paid before October 10th | $ 51.00 |
| Second instalment, if paid before February 1st | 51.00 |
| Sessional fee for the undergraduate course in the School of Commerce | $150.00 |

By instalments:—

| | |
|---|---|
| First instalment, if paid before October 10th | $ 77.00 |
| Second instalment, if paid before February 1st | 77.00 |

At the request of the students themselves and by the authority of Corporation, an additional fee of $17.00 will be exacted from all men undergraduates and conditioned undergraduates, for the support of the Literary and Debating Society, the Arts Undergraduates' Society, the Commercial Society, the Canadian Club, the Union, the McGill Daily and athletics. Women students pay an additional fee of $3.00 for athletics and athletic grounds, and $2.50 for the McGill Women Students' Society which includes all Royal Victoria College Societies.

**Fees for Laboratory Courses.**

Fees for supplies, as detailed below, will include all laboratory materials, reagents, and the use of instruments, and will cover ordinary wear and tear of instruments and apparatus, but they will not cover losses through waste, neglect, or breakage. The charges under this head will be deducted from the students' caution money at the end of the session.

| | |
|---|---|
| General Chemistry (1) | $ 7.50 |
| Organic Chemistry (2) | 5.00 |
| Analytical Chemistry | 12.50 |
| Organic Chemistry, advanced (5) | 15.00 |
| Quantitative Analysis, advanced (8) | 10.00 |
| Biological Chemistry (10) | 10.00 |
| Biological Chemistry, advanced (11) | 5.00 |
| Food Chemistry Laboratory | 10.00 |
| Physics (per session) | 7.50 |
| Botany (for sessional courses) | 10.00 |
| Botany (for term courses) | 5.00 |
| Zoology (for sessional courses) | 10.00 |
| Zoology (for term courses) | 5.00 |
| Psychology | 2.50 |

**Fees for Limited Undergraduates in the Faculty of Arts.**

In the First Year the fees shall be $17.00 per course; in the Second Year $20.00 per course; in the Third and Fourth Years $25.00 per course.

**Fees for Limited Undergraduates in the School of Commerce.**

In the First Year the fees shall be $25.00 per course; in the Second, Third and Fourth Years $30.00 per course.

Any Arts student transferring to Second Year Commerce must pay a fee of $200.00 for that Year.

**Fees for Partial Students in Arts.**

The fees for partial students are: $4.00 for library, $3.00 for athletics and athletic grounds, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

**Fees for Partial Students in Commerce:** $4.00 for library, $3.00 for athletics and athletic grounds and a fee at the rate of $9.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Graduates in Arts of this University are allowed, on payment of one-half of the usual fees, to attend all lectures in the undergraduate course, except those for which a special fee is exigible. Graduates of other universities attending full courses in affiliated theological colleges are given the like privilege.

**Special Fees.**

| | |
|---|---|
| Supplemental examination, taken at the regular date fixed by the Faculty | $ 5.00 |
| Each subsequent supplemental examination in the same subject | 10.00 |
| Supplemental examination, when granted at any other time than the regular date fixed by the Faculty, for each examination period | 10.00 |

All fees for supplemental examinations must be paid to the Bursar and the receipts shown to the Dean before the examination.

| | |
|---|---|
| Certificate of standing (general) | $ 1.00 |
| Certificate of standing, accompanied by a statement of classification in the several subjects of examination | 2.00 |

*All applications for certificates must be addressed to the Registrar of the University, accompanied by the required fee.*

No certificates are given for attendance on lectures unless the corresponding examinations have been passed.

| | |
|---|---|
| Fee for the degree of B.A. or B.Sc. (Arts) conferred in absentia (except when the candidate has been specially exempted by the Faculty) | $20.00 |

**Caution Money.**—Every student is required to deposit with the Bursar the sum of $10.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

**LIBRARY FEES.**

The Library fee for undergraduate students in the Faculties of Arts, Applied Science and Law is included in the University fees. The

fee for partial students is $4.00. Graduates, extension course students, and medical students using the University Library must make a deposit of $5.00 at the Bursar's Office. The fees for members of the McGill College Book Club and the University Book Club are payable to their respective treasurers. Individuals not belonging to any of the above groups may use the Reading Room without charge, but should apply to the Library Committee, through the Librarian, for permission to take books from the building.

## FEES IN APPLIED SCIENCE.

Sessional fee for the undergraduate course ..... $205.00

By instalments:—

First instalment, if paid before October 10th ..... $105.00
Second instalment, if paid before February 1st ..... 105.00

Fees are payable on October 8th and 9th, but they will also be received before October 1st.

After October 10th or February 1st (as the case may be) an additional fee of $2.00 will be exacted of all students in default.

Students taking the summer schools in May and September are required to pay the sum of $35.00 (including Caution Money Deposit), which will be placed to their credit on the fee for the following session.

At the request of the students themselves, and by authority of Corporation, an additional fee of $17.00 will be exacted from all undergraduates and conditioned undergraduates for the support of student activities.

Graduates of this Faculty taking an additional undergraduate course will pay one-half of the undergraduate fee.

Students taking the six-year double course in Arts and Applied Science or the seven-year course in Arts and Architecture shall pay full fees in Arts for the first three years of their course and full fees in Applied Science for the remaining three or four years, as the case may be, and an extra fee for the work required to be done in Applied Science whilst they are taking their course in Arts, to be computed at the rate charged partial students as stated below.

The fees for partial students are:—$4.00 for library, $3.00 for athletics and athletic grounds, $1.00 for the Undergraduates' Society, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceeed the full undergraduate fee.

Fee for the degree of B.Sc., conferred in absentia (except when the candidate has been specially exempted by the Faculty).. $20.00

For a regular supplemental examination, the fee is $5.00, for each subsequent supplemental examination in the same subject $10.00, for a special supplemental examination $10.00.

**Caution Money.**—Every student is required to deposit with the Bursar the sum of $10.00, as caution money, to cover damages done to furniture, apparatus, books, etc. This amoount, less deductions (if any), will be returned at the close of the session.

## FEES IN MEDICINE.

All students must register with the University Registrar before paying their fees.

1. Fees are due and payable to the Bursar on September 24th and 25th.

Fees will also be accepted before September 22nd.

Students who pay by instalments will be required to pay the second instalment on or before February 1st.

After September 25th or February 1st (in the case of those who pay by instalments) an additional fee of $2.00 will be exacted of all students in default.

2. Immediately after October 5th, or February 5th (in case of students who pay by instalments), the Bursar shall send to the Dean of the Faculty a list of the registered students who have not paid their fees, on receipt of which he shall cause their names to be struck from the register of attendance, and such students cannot be re-admitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

3. Students registering after September 25th shall pay their fees at the time of registration, failing which they become liable for the additional fee of $2.00 exacted of students in default.

4. The total Faculty fees for the medical course of five full sessions, including clinics, laboratory work, dissecting materials and reagents, will be *one thousand dollars*, payable in five annual instalments of $200.00 each.

At the request of the students themselves and by the authority of Corporation, an additional fee of $17.00 will be exacted from all men undergraduates, for the support of the Literary Society, the Undergraduates' Society, the Canadian Club, the Union, the McGill Daily, and athletics.

The sum of $10.00 is collected from all students at the time of registration as "caution money," from which deductions for breakage reported from the laboratories or lecture rooms are made and a refund granted at the close of the session.

5. Partial students will be admitted to one or more courses on payment of special fees. No fees will be refunded to partial students under any circumstances whatever.

6. Students repeating the course of study of any academic session are not required to pay full fees. A fee of one hundred dollars will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc. The same fee is charged students entering from other colleges who have already paid full fees elsewhere for the course taken. These students are also required to pay in addition the hospital fees exacted in the year to which they are admitted.

7. Students taking out extra dissecting material will be charged at the rate of $10.00 for a half session, and $20.00 for a whole session.

8. An *ad eundem* fee of $10.00 is charged students entering from another university in any year above the first.

9. The fee for the Degree of Doctor of Medicine and Master of Surgery is $30.00, to be paid by the successful candidate to the University Bursar immediately after the final examination. When the degree is conferred in absentia, an additional fee of twenty dollars will be exacted unless the candidate has been specially exempted by the Faculty.

10. The fee for the graduate course in Public Health, including laboratory fee, the fee for outdoor work and the diploma fee, is $100.00.

SUMMARY OF FEES.

| | | |
|---|---|---|
| Sessional fee | | $200.00 |
| By Instalments: | | |
| First instalment, if paid before Sept. 28th | $102.00 | |
| Second instalment, if paid before February 1st | 102.00 | |
| Microscope, first instalment (on deferred payment plan) | 35.00 | 35.00 |
| Caution money (deposit) | 10.00 | 10.00 |
| Fee for Union, athletics, etc. | 17.00 | 17.00 |
| | $266.00 | $262.00 |
| Graduation fee | | $ 30.00 |

MICROSCOPES.

Each student is required to provide himself, on beginning his studies, with a first-class microscope for laboratory and private study throughout his course. The Faculty will supply the instruments necessary for demonstrations, etc. The microscope must be of substantial construction and be provided, as a minimum, with the following

accessories:—2/3, 1/6 and 1/12 oil immersion objectives, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine.

Should the student not be provided with such a microscope, he may purchase a new guaranteed instrument through the Bursar's office of the University for the sum of $120.00 or on the deferred payment plan, by which payment is spread over five years as follows:—First Year, $35.00; second year, $27.50; third year, $25.00; fourth year, $22.50; fifth year, $15.00.

## FEES IN DENTISTRY.

| | | |
|---|---|---|
| Sessional fee | | $200.00 |
| By instalments:— | | |
| First instalment, if paid by 26th September | $102.00 | |
| First instalment, if paid by 1st February | $102.00 | |
| Athletics and Societies | | 17.00 |
| Caution Money (deposit) | | 10.00 |
| | | $227.00 |

In the Fourth Year there will be an extra fee of $30.00 for the Degree. When the Degree is conferred in absentia an additional fee of $20.00 will be exacted unless the candidate has been specially exempted by the Faculty.

The cost of instruments and material for First Year students is at least $40.00 and for Second Year students $350.00. These instruments are practically all that will be needed in an ordinary dental practice.

At the request of the students themselves, and by authority of Corporation, an additional fee of $17.00 is exacted from all men undergraduates and conditioned undergraduates for the support of the Literary Society, the Undergraduates' Society, the Canadian Club, the McGill Daily, the Union and athletics.

*The sum of $10.00 is collected from all students at the time of registration as "Caution Money," from which deductions for breakages reported from the laboratories or lecture rooms are made. The balance will be refunded at the close of the session.*

Partial students will be admitted to one or more courses on payment of special fees. No fees will be refunded to partial students under any circumstances whatever.

Students repeating the course of study of any academic session are not required to pay full fees. A fee of one-half the regular fee will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc. The same fee is charged students entering from other

colleges who have already paid full fees elsewhere for the courses taken. Students repeating the Third or Fourth Year will be required to pay in addition a Hospital Fee of $25.00.

An *"ad eundem"* fee of $10.00 will be charged students entering from another university in the Second, Third or Fourth Year of the course.

Fees shall be paid to the Bursar on September 26th, or at any time before September 22nd. After October 10th, or February 1st (in the case of those who pay by instalments), an additional fee of $2.00 will be exacted of all students in default.

Immediately after October 20th, the Bursar shall send to each of the Deans of the several faculties a list of the registered students who have not paid their fees, on receipt of which the Deans shall cause their names to be struck from the register of attendance, and such students cannot be readmitted to their classes except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

Students registering after October 10th shall pay their fees at the time of registration, failing which, they become subject to the provisions of the above regulation.

## FEES IN LAW.

The sessional fee of $150.00 is payable to the Bursar not later than the 3rd of October. Students who prefer to do so may pay the fee in two instalments of $77.00, the second of which is due not later than the 1st of February.

Students who make default in payment are liable to be removed from the Faculty in accordance with the regulations of the University.

Men students pay an additional fee of $17.00 for the support of various undergraduate activities and for athletics. This fee has been sanctioned at the request of the student body.

The regular graduation fee is $12.50. Where the degree is conferred *in absentia* an additional fee of $20.00 will be exacted, unless the student has been specially exempted by the Faculty.

Partial students will pay fees calculated at the rate of $7.00 per point for the courses which they attend and a fee of $3.00 for athletics and the use of athletic grounds.

Every student is required to deposit with the Bursar the sum of $5.00 as caution money to cover damage done to University property. The balance, less any deductions, will be returned at the close of the session.

## FEES IN THE CONSERVATORIUM OF MUSIC.

### CONSERVATORIUM FEES.

The fees will be as follows:—

Regular Students. $180 a year payable at the beginning of the session (not later than October 1st), or in two instalments of $92 each, payable before October 1st and February 1st, respectively. This sum will also cover the fees for Diploma or Degree Examination at the end of the year.

Senior Partial Students. $42 per term of eleven weeks. Students paying in full for the three terms of eleven weeks each, will be allowed to take the examination for a Certificate at the end of the year without any further fee.

Junior Partial Students. $35 per term of eleven weeks. Students paying in full for three terms of eleven weeks each, will be allowed to take the examination for a Certificate at the end of the year without any further fee. No one over the age of 16 years can enroll as a Junior partial student.

Repertoire Students. $60 per term of eleven weeks.

Occasional Students. Fees vary between $15 and $5 per term, according to class. Precise information can be obtained on this point from the Secretary.

The Fees for examinations for Certificates, when not included in the term fees as above mentioned, will be the same as the fees for the Local Examinations, see page 420.

**In all cases fees must be paid strictly in advance at the office of the Conservatorium.**

No individual or class lessons will be given to any student who is unable to produce a card, showing that the necessary fees have been paid.

### FEES FOR DIPLOMA AND DEGREE EXAMINATIONS.

Diploma of Licentiate (L. Mus.).—Fees for examinations, $45, of which $15 is payable at each examination. Diploma fee, $5.

Degree of Bachelor of Music.—Matriculation fee, $7 (see University Calendar). Fees for examinations payable as follows:—First examination in Music, $20. Second examination in Music, $20. Final examination in Music, $20. Graduating fee, $20.

Although under special conditions exemptions from certain examinations for the Diploma of Licentiate and Degree of Bachelor of Music may be allowed, there will be no exemption from the fees given

above, except in the case of candidates holding McGill Local Centre Certificates.

DEGREE OF DOCTOR OF MUSIC.—Fee $100, one-half of which ($50) is to be paid when submitting exercise and the balance ($50) before the final examination.

N.B.—Candidates examined in theoretical subjects connected with the above Degrees and Diplomas at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

## FEES IN PHARMACY.

*All students must register with the University Registrar before paying their fees.*

For the session 1924-25 the fees for separate courses will be as follows:—

| | |
|---|---|
| Registration fee | $ 5.00 |
| Fee for Athletics and Athletic Grounds | 3.00 |
| Course in Junior Chemistry and Physics | 50.00 |
| Course in Senior Chemistry | 50.00 |
| Course in Junior Materia Medica and Pharmacy | 50.00 |
| Course in Senior Materia Medica and Pharmacy | 50.00 |
| Course in Practical Pharmacy (Junior) | 50.00 |
| Course in Practical Pharmacy (Senior) | 50.00 |
| Course in Analytical Chemistry | 50.00 |
| Course in Botany | 25.00 |
| Diploma Fee | 15.00 |
| Fee for Supplemental Examination, each subject | 5.00 |

The following fees are payable to the Pharmaceutical Association of the Province of Quebec for registration, examinations, and for the licentiate in pharmacy.

The fees to be paid by candidates, besides the registration fee, before they are admitted to the examination, are as follows:—Preliminary examination, $20.00, or $10.00 for each group; Assistant in Pharmacy, $15.00, and Phamacist, $25.00. These fees must be paid in advance to the Registrar of the Association.

Any person having registered his name for an examination and not attending will lose the fee paid.

In addition to the above, a sum of $40.00 is required for the Diploma of Assistant Pharmacist, and $75.00 for the diploma of Licentiate in Pharmacy.

## FEES AND DEPOSITS IN THE SCHOOL FOR GRADUATE NURSES.

The fee for any certificate course is $100.00 a year (including the use of the Library), to be paid by October 10th, or payable in two instalments of $51.00 each, to be paid by October 10th and February 1st.

*Partial Students:*—Fee at the rate of $7.00 for an hour of instruction a week during the academic year; library fee of $4.00; special fee for courses which include laboratory work.

Regular students, as in all departments of the University, pay in addition a $3.00 athletics fee.

A deposit of $5.00 caution money is required from all regular students.

### EXPENSES.

A statement of average expenses for the academic year is as follows:—

| | |
|---|---|
| University fees | $103.00 |
| Books | 20.00 to $ 40.00 |
| Room (30-32 weeks) | 175.00 " 225.00 |
| Board | 225.00 " 300.00 |
| Incidentals | 30.00 " 40.00 |
| Average total | 550.00 " 700.00 |

## FEES IN THE SCHOOL FOR SOCIAL WORKERS.

**For Diploma and Certificate Students.**—The annual fee is $70.00; if paid in two instalments (in October and February) $72.00 (this includes the library fee). The grounds fee, payable by students to the University, is $3.00; this fee permits students to take part in athletics, etc. Students are required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the Session. Books and other School expenses should not exceed $15.00.

**Partial Students.**—Partial students will be charged a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full Diploma or Certificate fee. Partial students taking three hours or more a week will be required to pay the library fee ($4.00), the grounds fee ($3.00), and deposit $5.00 with the Bursar as caution money.

**Extension Course Students and Partial Students taking less than three hours a week of Instruction.**—These students desiring to use the University Library will be required to deposit $5.00 with the Librarian to cover damage done to books. This amount, less deductions (if any), will be returned at the close of the Session. A nominal fee, to be arranged by the Committee, will be charged for Extension Lectures.

## FEES IN THE SCHOOL OF PHYSICAL EDUCATION.

Sessional fee for Education Course..... $150.00

By instalments:

First instalment, if paid before or on October 11th..... 77.00
Second instalment, if paid before or on February 1st..... 77.00

A fine of $5.00 for the first week, and of $10.00 for the second week is exacted for late registration.

NOTE.—The deposit fee of $10.00 made at the time of acceptance of application will be credited toward the Sessional fee.

Students are required to pay the Universal Fee of $2.50 which entitles them to membership in the McGill Women's Student Society and subsidiary societies.

In addition there will be a fee of $5.00 for athletics and athletic grounds.

**Fees for Partial Students:** $4.00 for library, $5.00 for athletics and athletic grounds and a fee at the rate of $9.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

No fees will be refunded to partial students under any circumstances whatever.

Supplemental examination in any subject..... $ 5.00
Special supplemental examination in any subject..... 10.00

**Caution Money.**—Every student is required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

## FEES IN THE FACULTY OF GRADUATE STUDIES.

For the course leading to the degrees of M.A., LL.M., M.Sc. or M.S.A. .....$40.00
For each year of the course leading to the degree of Ph.D..... 40.00
Graduation fee for M.A., LL.M., M.Sc., or M.S.A..... 20.00
Graduation fee for M.A., LL.M., M.Sc., or M.S.A. (in absentia). 40.00
Graduation fee for Ph.D. ..... 30.00
Graduation fee for the degree of D.Litt..... 80.00
Graduation fee for the degree of D.C.L..... 80.00
Graduation fee for the degree of D.Sc..... 80.00
Graduation fee for the degree of Mus. Doc.....100.00

All fees for courses of instruction are payable on registration.

There is no fee for the degrees of LL.D. or M.A. when granted *honoris causa.*

The graduation fee (which covers the charges for examination) is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. **No thesis can be accepted unless it is accompanied by a receipt from the Bursar for this fee.** If, however, a candidate for the degree of M.A., LL.M., M.Sc., or M.S.A. fails, he may present himself for the examination in a subsequent year without further payment of fees. A candidate for the degree of Ph.D., D.Sc. or D.Litt., in case of failure, may present himself once again, in a subsequent year, upon payment of an additional sum amounting to one-half of the usual fee for this degree.

Lecturers, tutors and demonstrators in the University who are proceeding to the degree of Master of Arts, Master of Science, Master of Science in Agriculture or Doctor of Philosophy, shall, so long as they remain members of the teaching staff, be exempt from the tuition fee, but will be required to pay laboratory and registration fees and the fee for graduation in every case. In the event of their leaving the staff after one year of the course, they are required to pay a tuition fee of $20.00 in the M.A., M.Sc. or M.S.A. course and the prescribed fee in the Ph.D. course.

# STUDENTS' EXPENSES.

## 1. BOARD AND RESIDENCE.

No college residences have as yet been erected for men students, but dormitory accommodation for about 60 is provided in Strathcona Hall, the home of the Student Christian Association of McGill University. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 348 Sherbrooke Street West, Montreal, who will also make arrangements to have students who are strangers to the City met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

Information about boarding and lodging houses may be had on application to the Secretary at Strathcona Hall. A list of suitable houses is prepared about a fortnight before the opening of the session each year. Owing to frequency of change, this list is not mailed.

Women students may board and reside either in private houses or in the Royal Victoria College, which provides, in addition to separate lecture rooms residential accommodation for the women students of the University. The expense of board and residence for the session in the Royal Victoria College is $500. Further particulars will be furnished by the Warden.

Board and lodging can be obtained in private houses in the vicinity of the University buildings at a cost of from $60 and upwards per month; or, separately, board at $45 to $55 per month, rooms from $15 to $20 per month.

Board is furnished in the McGill Union at low rates. The dining room, which is a special feature of the Union, will accommodate over 120 students at a time. There is also a lunch counter where meals are served *à la carte*.

## 2. APPROXIMATE ESTIMATE OF COST OF COURSE.

### Faculty of Arts (Men).

(In all Years except the last the session extends from October 1st to May 15th.)

| | Minimum | Moderate |
|---|---|---|
| Tuition Fees | $100 | $100 |
| Fee for Athletics, Union, etc. | 17 | 17 |
| Board and Lodging | 450 | 550 |
| Books and Apparatus | 25 | 30 |
| | $592 | $697 |

**Faculty of Applied Science.**

(In all Years except the last the session extends from October 1st to May 1st.)

| | Minimum | Moderate |
|---|---|---|
| Tuition Fees | $205 | $205 |
| Fee for Athletics, Union, etc. | 17 | 17 |
| Board and Lodging | 425 | 525 |
| Books and Instruments | 40 | 50 |
| | $687 | $797 |

Students attending summer courses, required in certain years, for an additional period of one month, will have to spend from $60 to $70 extra in those particular years.

**Faculties of Medicine and Dentistry.**

(In all Years except the last the session extends from October 1st to May 20th.)

| | Minimum | Moderate |
|---|---|---|
| Tuition Fees | $200 | $200 |
| Fee for Athletics, Union, etc. | 17 | 17 |
| Board and Lodging | 460 | 560 |
| Books, Instruments, etc. (in Medicine)* | 150 | 170 |
| | $827 | $947 |

Undergraduates in Arts residing in affiliated theological colleges, with a view to a course in theology, are able to obtain board and lodging for less than the minimum shown above, and in all Faculties the expense under the head of "Books and Instruments" can be reduced by purchasing these at second-hand.

It will be noticed that in the above estimate no account is taken of personal expenses, such as cost of clothes, laundry, etc., nor yet of the caution money deposit which is made by each student at the commencement of the session. This amounts to $5.00 in the Faculty of Law and $10.00 in the Faculties of Arts, Medicine and Applied Science. It might be well also to reckon on at least $20.00 to $25.00 per annum for subscriptions of various kinds.

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*The cost of instruments and material in Dentistry for First Year students is at least $40.00 and for Second Year students $350.00. These instruments are practically all that will be needed in an ordinary dental practice.

# MORALS AND DISCIPLINE.

1. University discipline shall be exercised by the several Faculties, and by the Committee on Morals and Discipline, subject in the cases hereinafter mentioned to revision or confirmation by Corporation.

2. Subject to the provisions of the following sections, each Faculty shall be entitled to exercise University discipline over its own students.

3. All cases of discipline involving the interests of more than one Faculty, or of the University in general, shall be dealt with by a standing Committee of Corporation, to be known as the Committee on Morals and Discipline. The Committee shall have power to summon as assessors the President and Vice-President of the Students' Council.

4. All such cases of discipline as are referred to in sub-section 3 shall be reported to the Principal, or, in his absence, to the Vice-Principal, or, in the absence of both, to the senior Dean present in the city. If the Principal, or, as the case may be, the Vice-Principal or the Dean, deems action necessary, the matter shall be reported to the Committee on Morals and Discipline. Corporation shall also have the power to report such matters to the said Committee.

5. When sentence of expulsion, or of suspension for more than three months, has been pronounced or recommended by a faculty, or by the Committee on Morals and Discipline, the Corporation may entertain an appeal, which shall be final.

6. "University discipline" shall mean any appropriate method of exercising authority over students, and shall, but without prejudice to the foregoing generality, include the power of expulsion, suspension, disqualifying from competing for scholarships, exhibitions, medals, prizes or honours, imposing fines, not exceeding $25.00, on any student, levying assessments for damage done, reporting to parents or guardians and admonition.

7. Any students found guilty of immoral, dishonest, disorderly or improper conduct, or of wrongfully causing damage to person or property, shall be liable to University discipline.

The following resolution should be noted here: "The Corporation of the University viewing with marked disfavour the organized kidnapping or other proceedings of a violent and objectionable character practised by

the students of the First and Second Years at the beginning of the Session, hereby requires the student body to discontinue such practices under severe penalties."

8. If on an occasion of general disorder on the part of a year, class, or group of students, damage be done to University property, or acts committed meriting discipline, and the individuals who have done such damage or committed such acts have not been discovered, an assessment to cover the damage may be laid, or a fine imposed, or both, on all the members of such year, class or group.

9. While in College, or in the College grounds, students shall conduct themselves in the same orderly manner as in the class-room. Smoking is prohibited in the College buildings, except in such rooms, if any, as may be set apart for that purpose. Any professor observing improper conduct on the part of a student in the College buildings or grounds may admonish him, and, if necessary, report him to the Dean of the Faculty in which he is enrolled. Without, as well as within, the walls of the College, every student is required to maintain a good moral character.

# ACADEMIC DRESS.

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have been granted by the Faculty.

*Undergraduates* shall wear a plain black stuff gown, not falling below the knee, with round sleeve cut above elbow.

*Bachelor of Arts.*—Black stuff gown, falling down below knee, with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

*Bachelor of Science.*—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

*Bachelor of Science in Agriculture.*—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

*Bachelor of Civil Law.*—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

*Bachelor of Laws.*—The same gown as Bachelors of Arts; hood, black silk, lined with scarlet silk and edged with white fur.

*Bachelor of Architecture.*—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

*Bachelor of Music.*—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

*Bachelor of Commerce.*—The same gown as Bachelors of Arts; hood, black silk, lined with purple silk and edged with white fur.

*Master of Arts.*—Black gown of stuff or silk, falling below knee, with long sleeve with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

*Master of Science*—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

*Master of Laws.*—The same gown as Masters of Arts; hood, black silk, lined with scarlet silk.

*Doctor of Medicine.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

*Doctor of Dental Surgery.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

*Doctor of Laws.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

*Doctor of Literature.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

*Doctor of Science.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

*Doctor of Civil Law.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

*Doctor of Music.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale mauve silk.

*Doctor of Philosophy.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.), faced with silk of the same colour as the lining of their respective hoods.

All hoods shall be in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates shall wear the ordinary black trencher with black tassel, but Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods shall be kept for inspection in the office of the Registrar.

For the information of graduates in Great Britain, it may be stated that the gowns and hoods for the various degrees specified above can be purchased from Messrs. Ede, Son & Ravencroft, 93 and 94 Chancery Lane, London, W.C. 2.

# PHYSICAL EDUCATION.

## FOR MEN.

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB, B.P.E., M.D.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY, B.A., M.D.

All students, on entering the University, are required to pass a physical examination (see page 79). By such an examination, any physical defect or weakness may be discovered early, and the student will be advised in regard to treatment. For those defects amenable to treatment by exercise or other hygienic measures, individual attention will be given, and the student will be advised as to what forms of exercise will be likely to prove beneficial or harmful.

### I. GENERAL.

The aim of the University requirements in physical education is the maintenance and improvement of the physical well-being of the student body, and the production of graduates who are physically as well as mentally fitted for their life-work.

As voluntary exercise is of greater value than compulsory, great latitude is given the individual student in his choice of the type of activity.

The chief factors limiting this choice are:—

1. The suitability of the exercise as a means of physical education.
2. The physical fitness of the individual student to take the form of exercise chosen.
3. The possibility of effective supervision.
4. The practicability of ensuring regular participation.

The aim is not to replace the existing forms of University athletics, but to assist in developing an interest in these by every legitimate means.

### II. REGISTRATION.

1. At the time of registration every male student of the first three years in the Faculties of Arts, Medicine, Dentistry and Science and of the first two years in the Faculty of Law shall be given a printed announcement of the University requirements in physical education.* This announcement shall include a list of the recognized forms of

*Note.—For the sesssion 1924-25 and until further notice, this regulation will apply to students of the first two years only in the Faculties of Arts, Science, Medicine and Dentistry.

physical activities in which a student may take part in fulfilment of the requirements, and a statement that at the time of his medical examination he will be expected to indicate his choice of the particular forms which he wishes to follow.

2. At the time of his medical examination, each student shall be required to fill in a card indicating his choice, as outlined in paragraph III. 1. The Director shall then decide as to his physical fitness for the form chosen and shall inform the student of his decision and note the same on his card, which shall be filed for reference.

3. Every student shall be categorized by the University Medical Officer as either:—

(A) Fit for all forms of physical exercise.

(B) Fit for a limited number of forms.

(C) Fit for gymnasium work only.

(D) Fit for remedial gymnastics, or temporarily unfit.

(E) Unfit for any forms of physical exercise.

### III. EQUIVALENTS,

1. Subject to paragraphs 2 and 3 the following artivities are recognized as fulfilling the requirements:—University basketball, boxing, wrestling and fencing, English rugby, golf, gymnastic classes, harriers, hockey, indoor baseball, rugby, ski-ing and snowshoeing, soccer, swimming and water polo, tennis, track and field teams, the McGill C.O.T.C., and such other activities as shall be decided upon from time to time by the Committee on Physical Education.

2. Subject to the approval of the Director, as laid down in paragraph II. 2, any student who desires to participate in competitive athletics, as mentioned in paragraph III. 1, may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

3. If successful in making a place on the team, he shall be excused from any other forms of exercise for the season of play, and *may* be excused for the remainder of the term at the discretion of the Director.

4. Any student who has been placed in Categories A, B, C or D at his University medical examination, and who does not voluntarily take part in any of the other recognied forms of exercise as provided above, shall be required to attend the regular gymnasium classes appropriate to his category.

### IV. ATTENDANCE.

1. The amount of time required to be devoted to physical exercise by each student shall be two hours per week throughout the session. Until such time as the University is in possession of its own gymna-

sium, however, this amount of time may be reduced by the Committee on Physical Education to meet the exigencies of gymnasium accommodation.

2. A record will be kept of the attendance of every student as far as his required physical training is concerned.

3. Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

4. Excuses will be granted for absences due to participation in Intercollegiate Athletics as follows:—

(*a*) For all fixtures under the jurisdiction of the C.I.A.U.

(*b*) For a maximum of one fixture for each sport not under the jurisdiction of the C.I.A.U. This fixture must first be specially approved by the Athletic Board, the names of proposed players being submitted to the Faculty previous to the game. The Faculties concerned may not approve of granting excuses from lectures to any whose academic standing does not warrant such an excuse.

In order to secure exemption from attendance on the above grounds Managers must fill out and certify to the facts on the special forms provided for this purpose and deposit them within seven days at the office of the Department of Physical Education.

5. At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the respective Faculties.

6. No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of his Faculty and approved by the Committee on Physical Education.

7. Not less than one month before the conferring of degrees in each session the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee

on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

### V. EXEMPTIONS.

Claims for exemption from the above requirements shall be made in the first instance to the Director, who shall refer them to a sub-committee on exemptions appointed by the Committee on Physical Education.

### VI. COLLEGE GROUNDS AND ATHLETICS.

The management of the College grounds, all Physical Education, including athletics and sports, is under the control of the Standing Committee on Physical Education. This Committee is responsible for the general maintenance of all University grounds, and retains the ultimate authority and power of supervision in all matters affecting athletics in the University. All matters which may in any way affect athletics much be referred to the Athletic Board, and its approval must be obtained before any departure is made from the authorized routine. The Athletic Board reports to the Committee on Physical Education.

The Athletic Board is responsible for the organization, administration and supervision of the entire athletic programme. The composition of the Board is as follows:—The Principal of the University, Chairman, the Bursar, three members of the teaching staff, three graduates, one of the Stadium guarantors and three undergraduates. The Athletic Manager is Secretary of the Board. Intra-mural and Intercollegiate competitions are conducted in the following sports:—Basketball, Boxing, Wrestling and Fencing, English Rugby, Golf, Gymnastics, Harriers, Hockey, Indoor Baseball, Rugby, Ski-ing and Snowshoeing, Soccer, Swimming and Water Polo, Tennis, Track and Field.

All students of all years must, during the current session and prior to participation in competitive athletics or otherwise engaging in athletic practice or competition, have passed the University medical examination and have received an appropriate category.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

The managers and captains of clubs, or other responsible executive officers, are required to insist upon the strict observance of the rule in

regard to medical examination and all the rules and regulations of the Committee which concern them.

All clubs must submit their regulations, rules, and by-laws, and any changes in the same, for the approval of the Board. They must make application for the use of such portions of the grounds as they require, and for any special privileges.

During the session and including the Christmas holidays, all teams and individual *students desiring to participate in "outside athletics"** must first apply to the Captain or Manager of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

All students of the University are required to pay a fee of five dollars ($5.00) for the use of the grounds (this is included in the general fee of $17.00 paid by undergraduates). The amount so paid is credited to the Athletic Board, and is by this body expended in the interest of College athletics, under the general direction of the Committee on Physical Education.

The amount derived as grounds and athletics fees from the students of the Royal Victoria Colleege is placed at the disposal of the Committee on Physical Education, for expenditure in the interests of women-students.

The annual sports of the University are held on the third Friday of October each year. The day is observed as a holiday.

## VII. HEALTH.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, except under special circumstances.

A special leaflet concerning this service and the general work of the Department will be supplied to all students at the opening of the session.

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*Outside athletics is interpreted to mean those forms of athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.

### VIII. MEDALS.

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the Corporation of the University. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean or Registrar of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the degree.

### IX. STRATHCONA CERTIFICATE COURSE.

The Departments of Education and Physical Education offer the following courses for men undergraduates of the Fourth Year:—

A course of 45 hours on the principles and practice of physical education. The course will cover elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

Students who satisfactorily complete this course are entitled to certificate "B" of the Strathcona Trust, and their work is included in the requirements of the High School Diploma of the Province of Quebec.

For further particulars see page 165 and the "Annual Circular to Men Students."

## FOR WOMEN.

(ROYAL VICTORIA COLLEGE)

DIRECTOR OF THE DEPARTMENT:—A. S. LAMB, B.P.E., M.D.
UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY, B.A., M.D.
PHYSICAL DIRECTOR FOR WOMEN:—MISS ETHEL M. CARTWRIGHT.
ASST. PHYSICAL DIRECTOR FOR WOMEN:—MISS RUTH HARVEY.

Classes in educational gymnastics for all undergraduates of the College and for resident students of music are conducted in the gymnasium of the Royal Victoria College. All students on entering the University are required to pass a physical examination (see regulation on page 79) and are also required to pass satisfactory physical tests before taking part in any of the outdoor or indoor physical exercises organized by the Department, whether educational, remedial or recreational.

Work in the Physical Education Department throughout the four-year course (amounting to 140 hours in all) is required of all under-

graduate students.* These periods will be used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual. No student will be asked to do work unsuited to her physique, and students debarred from exercise of any kind will be dealt with separately and carefully advised.

Classes in Physical Education required of women students in other faculties than the Faculty of Arts are also held in the gymnasium of the Royal Victoria College.

Partial students are admitted to the classes in educational and recreative gymnastics on payment of a fee of $5.00.

Reports of attendance in physical education will be regularly sent to the Faculty.

*Strathcona Prizes.*—Three first prizes valued at $8, $10 and $12, and three second prizes valued at $5, $6, and $9, are open to students for competition in the Second,, Third and Fourth Years respectively. Two prizes of $5 are offered for competition to the students of the First Year; one for students who have taken part in educational gymnastics at school, and the other for students who have had no previous physical training.

All competitions will be held under the following regulations:—

1. Competitors will be awarded 50 per cent. of the marks on the work of the session.

2. No prize shall be awarded unless the judges consider the work up to the standard of 75 per cent.

3. The prizes shall not be awarded in the Second, Third and Fourth Years should the winner fail to obtain her full academic standing. The prizes in the First Year shall not be awarded if the winners fail in more than one subject at the sessional examinations.

4. Competitors will be judged on the work taught in the Physical Education Department during the session, the Physical Director for Women arranging all details concerning the competition. A programme of the competitions will be posted not later than March 1st.

5. Judges for these competitions shall be appointed yearly by the Committee on Physical Education.

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*In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department. Every student is required to wear the costume recommended by the Department.

STRATHCONA CERTIFICATE COURSE.

A course similar to that announced on page 132 is given for the women undergraduates of the Fourth Year.

For further particulars see page 165 and the "Annual Circular Issued to Women Students."

## MILITARY TRAINING.

### Canadian Officers' Training Corps.

(McGill University Contingent.)

Honorary Colonel:—General Sir A. W. Currie, G.C.M.G., K.C.B., LL.D.

In order to train undergraduates that they may become men fitted to hold His Majesty's Commissions, a contingent of the Canadian Officers' Training Corps was organized at McGill University two years before the Great War. The contingent is a unit of the Active Militia, being governed by special regulations, under which it cannot be called out for active service as a unit. During the Great War it did splendid service, and many of its members appeared in the rolls of honour.

The training is intended to bring the largest possible number of students up to the standard required for the two certificates:—A, a Lieutenant's, that is, of a man fit to command a platoon; and B, a Captain's, that is, a man fit to command a Company. The value of these certificates lies in their showing that the candidates have satisfied a board of regular officers at practical examinations that they have developed properly their powers of command, know how to give orders to other men, can retain their self-possession, and can act promptly on their own initiative in a sudden emergency; and further that they have passed the written examinations, in which candidates must show a thorough knowledge of topography, how to organize and look after the welfare of men under their command, and so on. If a member is recommended for a commission in the Active Militia of Canada, or the corresponding military force in any other part of the Empire, the possession of one of these certificates entitles him to promotion to the rank denoted, as soon as there is a vacancy, without any further examination, and also to certain other advantages.

To obtain a Certificate A (Lieutenant's) a member must complete one year's efficient service in the corps, and in the case of Certificate B (Captain's) two years' efficient service, and pass the practical and written examinations, which are held under the auspices of the Imperial and Dominion Governments conjointly, for the whole Empire at the same time. The written papers are set and corrected by military experts in London, England, for the whole Empire.

To be efficient in a given year (1st August to 1st July), a member must have attended 40 parades if in his first year of service, or 25 parades if in a subsequent year, and must have completed the prescribed

course of musketry. The time required is about two hours per week each session, and rifle practice is encouraged. The unit has its own rifle-range and quarters.

Each member upon joining the contingent will be required to deposit the sum of $5.00 with the Adjutant; for which a receipt will be given. This money will be refunded if the member becomes efficient; otherwise it will go into the funds of the contingent.

The training in the corps is of such a nature that all students are recommended to join. Enlistment is, however, purely voluntary.

Military training is one of the forms of activity recognized as fulfilling the requirements of physical education.

# FACULTY OF ARTS.

## COURSES FOR THE DEGREE OF B.A.

Students may enter the Undergraduate Course by passing either the Junior or the Senior Matriculation Examination. In the former case, in order to obtain the degree of B.A. or B.Sc., they are required to attend regularly the prescribed courses of lectures for four years; in the latter, for three. No course or courses can be counted towards a degree or diploma in the Faculty of Arts except such as have been taken and passed after matriculation requirements have been satisfied and according to the regulations governing the various years of the Undergraduate Course. Undergraduates are arranged in Years, from First to Fourth, according to their academic standing. The respective conditions of passing into the last three years of the course are stated on page 150.

The courses in each department shall be of three hours a week each. The third hour, if not needed for lecture purposes, may, with the consent of the Department, be used by the instructor for conferences or laboratory work.

An undergraduate may proceed to the degree of B.A. by taking either the Ordinary Course or one of the Honour Courses.

### 1. THE ORDINARY COURSE FOR THE DEGREE OF B.A.

In the First Year six courses shall be taken, i.e., eighteen hours of class work per week; in the Second Year, five courses (fifteen hours); and in the Third and Fourth Years respectively, four courses (twelve hours).

#### FIRST YEAR.

(*a*) *Compulsory.*

**Latin** or **Greek.**

**English** (two hours Literature, one hour Composition).

**Mathematics.**

But in the case of students taking three languages (exclusive of English), Mathematics shall not be compulsory.

**Physical Education** (two hours per week).

(*b*) *Elective:*

Three of the following:—
**History.**
**Greek** or **Latin,** (if not already taken).
**French.**
**German.**
**Science (Physics** or **Chemistry*** or **Biology).**

Details of the work in each subject are given on pages 155 to 193.

Application to take additional courses must be made to the Dean at the beginning of the session.

**Advanced Courses.**—A student qualified to take work of a more advanced character than the ordinary course of the First Year in any subject, shall, with the consent of the B.A. Advisory Committee, take such advanced work in that subject as the department concerned may recommend. Students taking advanced courses may be excused from the corresponding ordinary courses on the recommendation of the department.

**Advisers.**—A Board of First Year Student Advisers, consisting for the most part of members of the staff teaching First Year subjects but including also such heads of departments and professors as are willing to act, shall be appointed each year. The Board shall have an Executive Committee of five members and the Chairman of the Executive Committee shall be the Chairman of the Board. The members of the Board, the Executive Committee and the Chairman shall be appointed by the Dean.

The number of Advisers shall, if possible, be large enough to preclude the possibility of any one of them having more than ten advisees.

At the end of each session a circular letter explaining the Adviser system shall be sent to the Headmasters of schools from which students are likely to come to McGill. With the letter will also be sent a card which the Headmaster and the student should fill out and return to the Registrar. The card will contain such data in regard to the prospective student's record, inclinations and interests as will serve to guide his Adviser in the choice of subjects for which he will register. On the card the student may enter also the name of the professor whom he wishes to have as his Adviser.

All First Year students must interview their Advisers at least once a month.

The Board of Advisers shall meet once before the Midyear and once before the Sessional Examinations and at such other times as the Chairman shall determine.

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*A course in High School Physics is a prerequisite for the Chemistry option.

**Probation.**—Reports on First Year students who are delinquent in their work shall be submitted to the Dean's office by the instructors at two stated dates before Christmas and on one date in the second term (March). A student who in two successive tests is below the required standard in more than one-third of his subjects shall be placed "on probation." If in any three consecutive tests he is below the required standard in more than one-third of his subjects or if he fails in one-half or more of his subjects at the mid-year examinations, he shall be dropped from the University for that year and shall not be allowed to re-enter the University except with the consent of the Faculty concerned. During his period of "probation" a student shall not be allowed to be a member of a class or college athletic team or to hold office in a class or college society. It is understood that the mid-year examination shall constitute one of the tests.

SECOND, THIRD, AND FOURTH YEARS.

Students shall choose three subjects for continued study through the Second, Third and Fourth Years.

These shall be designated the Continuation Subjects.

In each of the Continuation Subjects a full course, or two half courses, will be taken each year.

Two of the Continuation Subjects may be selected from Division I, of the list below, and one from Division II; or two may be selected from Division II and one from Division I.

| Division I | Division II | Division III | Division IV |
|---|---|---|---|
| **English.** | **Economics.** | **Botany.** | **Education.** |
| **French.** | **History.** | **Chemistry.** | **Music.** |
| **German.** | **Mathematics.** | **Geology.** | |
| **Greek.** | **Philosophy.** | **Physics.** | |
| **Hebrew.** | **Political Science.** | **Zoology.** | |
| **Latin.** | **Psychology.** | | |
| | **Social Science.** | | |

Physical Education is compulsory in the Second Year (two hours per week).

Additional courses, or the equivalent number of half courses, shall be chosen as follows:—

In the Second Year—Two additional full courses;
In the Third Year—One additional full course;
In the Fourth Year—One additional full course.

Of the additional courses two must be taken from Division III, the remaining two may be selected at will from any of the Divisions.

## LIST OF COURSES AND PREREQUISITES

| Second Year | | Third Year | | Fourth Year | |
|---|---|---|---|---|---|
| Course | Prerequisite | Course | Prerequisite | Course | Prerequisite |
| **DIVISION I.** | | | | | |
| English 3, 4 | 1 and 2 | | | | |
| French 2 | 1 | 4, 5 | 2 | 4, 5 | 2 |
| German 5, 6 | 1 and summer work, or 2 | 8, 9, 10, 11, 12, 13 | 5 | 8, 9, 10, 11, 12, 13 | 5 |
| 4 | 3 | | | | |
| Greek 2 | 1 | | | | |
| 4 | 2 | 5 | 2 or 4 | 5 | 2 or 4 |
| Hebrew 1 | | 2,8, | 1 | 2, 8 | 1 |
| | | 3 | Greek 1 | 3 | Greek 1 |
| | | 4, 5 | Greek 2 | 4, 5 | Greek 2 |
| | | 6, 11, 13 | 1 | 6 (or 11) 12, 13 | 1 |
| | | 9 | | 9 | |
| Latin 2 | 1 | 3 | 2 | 3 | 2 |
| **DIVISION II.** | | | | | |
| Economics 1 | | 3, 4, 5 | 1 or 2 | 6, 7, 8, 9 | 1 or 2 |
| | | 6, 7, 8, 9 | 1 or 2 | 10, 11, 14, 15 | 1 or 2 |
| History 2 | 1 | 3 | 2 | 4 | 3 |
| Mathematics 2, 3, 4 | 1 | 2, 3, 4 | 1 | 2, 3, 4 | 1 |
| | | 5, 6, 7 | 2 and 3 | 5, 6, 7 | 2 and 3 |
| Philosophy 1 | | 2, 4, 6 | 1 | 8, 9, 10 | 7 |
| | | | | 2, 4, 5, 6, 7, 8 | 1 |
| Political Science 2 | | 3 | 1 or 2 | 6, 7, 8, 9 | 1 or 2 |
| | | 6, 7, 8, 9 | 1 or 2 | 12, 13 | 1 or 2 |
| Psychology 1 | | 2, 3, 4 | 1 | 2, 3, 4, 5, 9 | 1 |
| Social Science 1, 2 | | 2, 3, 4, 5, 6, 7 | 1 | 2, 3, 4, 5, 6, 7, 8, 9 | 1 |
| | | | | | 1 |
| **DIVISION III.** | | | | | |
| Botany 3 | 2 | 4 | 2, or Zool. 1 | 6-8 | 3 |
| 4 | 2, or Zool. 1 | 5 | 3 | 7 | 3 |
| Chemistry 1 | | 1 | | 1 | |
| Chemistry 2 | 1 | 2 | 1 | 2 | 1 |
| Chemistry 3 | 2 | 3 | 2 | 3 | 2 |
| Geology 1 | | 1 | | 1 | |
| | | 2, 3 and 4 | 1 | 2, 3 and 4 | 1 |
| Physics 2 | | 2 | | | |
| 3 | 2(and Math. 1) | 3, 4 | 2(and Math. 1) | 3, 4 | 2 (and Math. 1) |
| | | 5, 6 | 3, 4 (and Math. 3.) | 5, 6 | 3, 4 (and Math. 3.) |
| | | | | 7, 8* | 5, 6a (and Math. 6.) |
| Zoology 1 | | 1 | | 1 | |
| 2-4 | 1 | 2-5, 7 | 1 | 2-5, 7 | 1 |
| **DIVISION IV.** | | | | | |
| Education | | 1 | | 2 | 1 |
| Music 1 | | 1 | | | |
| | | 2 | 1 | 2 | 1 |

*Physics 3, 4 and Math. 6 may be accepted for 8a in the case of honour students in Chemistry.

Details of the work in each subject are given on pages 155 to 193.

Honour lectures are open to candidates for the Ordinary degree in the Third and Fourth Years, on the recommendation of the Department concerned and with the approval of the Dean.

### GENERAL RESTRICTIONS.

The selection of Continuation subjects or additional courses will be under the following restrictions:—

1. A course intended primarily for First Year students may be counted as a full course in the Second Year, but only two-thirds of a course in the Third and Fourth Years.

2. Only those courses may be chosen for which the student has fulfilled the prerequisites laid down by each Department.

3. Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures or laboratory periods.

For regulations governing the double courses in Arts and Applied Science, in Arts and Medicine, and in Arts and Dentistry, see pages 151 to 154.

### SUMMER READINGS.

Summer readings are voluntary. The Summer Readings Committee shall, with the aid of the various departments, draw up a list of readings for First Year students each year before the end of the session. This list shall be posted on the notice boards of the Arts Building and the Royal Victoria College and shall be made available for all students who may desire copies.

In regard to Second, Third and Fourth Year Ordinary students, advice on summer readings shall be given to them by the Heads of the departments in which their continuation subjects are being taken.

Summer readings for Honour students are left in the hands of the departments concerned.

## II. HONOUR COURSES FOR THE DEGREE OF B.A.

Honour Courses are offered by the following Departments:—

**Chemistry.**
**Classics.**
**Economics and Political Science.**
**English.**
**French.**
**Geology and Mineralogy.**
**History.**
**Oriental Languages.**
**Philosophy.**
**Psychology.**

Honour Courses are also offered by the following combined departments:—

**Botany** and **Zoology (Biology).**
**Biology** and **Physiology.**
**Biology** and **Chemistry.**
**Economics** and **English.**
**Economics** and **French.**
**Economics** and **German.**
**Economics** and **History.**
**Economics** and **Philosophy.**
**Economics** and **Social Science.**
**English** and **French.**
**English** and **German.**
**English** and **Greek.**
**English** and **History.**
**English** and **Latin.**
**English** and **Philosophy.**
**English** and **Political Science.**
**English** and **Psychology.**
**English** and **Social Science.**
**French** and **German.**
**French** and **Greek.**
**French** and **History.**
**French** and **Latin.**
**French** and **Philosophy.**
**French** and **Political Science.**
**French** and **Psychology.**
**German** and **Greek.**
**German** and **History.**
**German** and **Latin.**
**German** and **Philosophy.**
**German** and **Political Science.**
**German** and **Psychology.**
**Greek** and **Hebrew.**
**Greek** and **History.**
**Greek** and **Philosophy.**
**History** and **Latin.**
**History** and **Philosophy.**
**History** and **Political Science.**
**Mathematics** and **Physics.**
**Philosophy** and **Social Science.**
**Political Science** and **Social Science.**
**Psychology** and **Social Science.**
**Philosophy** and **Political Science.**

Other Honour Courses in combined departments may be arranged with the approval of the Dean and of the Heads of the departments concerned.

In the Honour Courses in combined departments, when the departments are divided into two sections (as **Classics** into Greek and Latin, **Economics** and **Political Science** into Economics and Political Science), the graduate's certificate shall designate by name the sections in which Honours have been taken (*e.g.*, First Class Honours in Greek, and Second Class Honours in Latin). But in Honour Courses in combined departments, when the departments are not divided into sections (as English, History, Social Science, etc.), the graduate's certificate shall indicate that the work done in each of the departments amounts to only half of a full honour course in that department—*e.g.*, First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half).

With the consent of the Dean and of the Heads of the departments, students may take Honours in two departments or in one department and in part of another.

Honour Courses begin in the Second Year. Departments, however, should, whenever possible, have advanced classes for the better students of the First Year.

The conditions for taking up Honour subjects in the Second Year are as follows:—

(a) The student must have passed in five of the six subjects taken in the First Year.

(b) The sanction of the Dean, and of the Head or Heads of the Departments in which Honours are sought, must be obtained.

(c) No student shall take Honours in a subject in which he has failed.

A Second Year Ordinary student who shows exceptional merit in any subject in his Second Year examination, may, if he so wishes, and the Head of his Department is satisfied that his knowledge of the subject is sufficient to enable him to reach the standard of Honours by only two more years' study, be allowed to take up the Honour course in that subject in his Third and Fourth Years.

Honour Courses in the Second Year shall consist of 15 hours and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work shall also involve wide reading and study in the subject, apart from the actual subjects of lectures, in accordance with a definitely prescribed programme.

Attention is drawn to the fact that lectures will not be given on all parts of the work.

In the Second Year a student registering for Honours in one subject only will fulfil the requirement of fifteen hours by taking a minimum of two courses or six hours in his Honour subject and in addition such other courses bringing the total to fifteen hours as the Department under which he is studying may direct. A student registering for combined Honours in two subjects will fulfil the requirement of fifteen hours by taking two full courses in each Honour subject, or twelve hours altogether, and in addition one other course, making a total of fifteen hours, as the two Departments concerned may direct. A student who has failed in any such subject in the Third Year examinations shall not be allowed to continue his Honour course except with the consent of the Faculty.

Honour students who fail to attain Honour standing at the end of the year shall revert to the ordinary courses in their next year, unless they obtain special leave from the Faculty to continue their Honour course on the representation of the Heads of the Departments concerned.

Honour lectures are open to candidates for the ordinary degree in the Third and Fourth Years, on the recommendation of the Department concerned and with the approval of the Dean.

The examinations for Honours will not be conducted exclusively by persons who have given the courses.

### III. THE ORDINARY COURSE FOR THE DEGREE OF B.Sc.

An undergraduate may proceed to the degree of B.Sc. in Arts by taking either of the Ordinary Courses or an Honour Course.

There are two Ordinary Courses, designated respectively A and B.

#### Ordinary Course A.

This course has been arranged to give students a thorough training in science as a preliminary to entering a technical business or profession, or for teaching.

#### First Year.

**Chemistry 1.**
**English 1 and 2.**
**French 13.**
**German 3.**
**Mathematics 1.**
**Physics 1 or 2.**

Special arrangements will be made for students who have passed the matriculation examination in German.

Details of the work in each subject are given on pages 155 to 193.

#### Second Year.

In addition to English four subjects must be taken, of which three must be selected from Group I below; the fourth subject must be taken from Group II.

#### Third and Fourth Years.

Two subjects selected from Group I must be continued in the Third and Fourth Years and two other subjects must be taken.

GROUP I.

| SUBJECTS. | SECOND YEAR. | THIRD YEAR. | FOURTH YEAR. |
|---|---|---|---|
| **Biology.** | **Zoology 1. Botany 2.** | **Zoology 2 *or* 4; *or* Botany 6.** | **Botany 6 *or* Zoology 2 *or* 4.** |
| **Chemistry.** | **2 *or* 3, and 4.** | **2 *or* 3, and 9.** | **5 *or* 6 and 8.** |
| **Geology.** | **1.** | **5 and 6.** | **2 and 3.** |
| **Mathematics.** | **2.** | **3 and 4.** | **6.** |
| **Physics.** | **2 (*or* 3A, if 2 has been taken).** | **3A (*or* 3 B and 4, if 3A has been taken).** | **3B and 4 (*or* 5A and 8A; *or* 8A and 9).** |

GROUP II.

| SUBJECTS. | SECOND YEAR. | THIRD YEAR. | FOURTH YEAR. |
|---|---|---|---|
| Economics and Political Science. | 1 *or* 2. | Any one of:— 3, 4 and 5, 6 and 7. | Any one of:—3, 4 and 5, 6 and 7, 10 and 11, 12 and 13, not chosen in the Third Year. |
| Education. | | | 1 and 2. |
| English. | 4, 6, 7 *or* 8. | Any one of:—4 to 11, 15, 18. | Any one not taken in the Third Year, of 4 to 11, 15, 18. |
| French *or* German. | 2. | 4 *or* 5. | 4 *or* 5. |
| | 4 *or* 5. | 7 *or* 8. | 7 *or* 8. |
| History. | 2. | 3. | 4. |
| Philosophy. | 1. | Any one of:—2, 3, 4, 6. | 2 *or* 3 *or* 4 *or* 6, whichever has not been taken in the Third Year. |
| Psychology. | 1. | 2 *or* 3 *or* 4 *or* 5. | 2 *or* 3 *or* 4 *or* 5, whichever has not been taken in the Third Year. |
| Social Science. | 1. | 2, *or* 3 and 4, *or* 5 and 6. | 2, *or* 3 and 4, *or* 5 and 6, any course not taken in the Third Year. |

Students selecting Physics, as one of the three subjects of the ordinary B.Sc. course, must also select Mathematics.

## ORDINARY COURSE B.

### *Double Course B.Sc., M.D.*

This course in the physical and biological sciences is especially devised for students who might wish to proceed to a degree in Medicine or to advanced work in physiology, biological chemistry, pharmacology or allied subjects. Students intending to enter the Faculty of Medicine must pass the matriculation examination in Latin before admission to the Third Year of the B.Sc. course.

Graduates in this course are qualified to enter the Third Year in the Faculty of Medicine.

First Year.

English 1 and 2.
German 3.
Mathematics 1.
Physics 1.
Chemistry 1.
French 13.

Second Year.

German 4 *or* French 2.
Physics 2.
Botany 1.
Zoology (as in First Year Medicine).
Chemistry 3.

Third Year.

Chemistry 2 and 4.
General Physiology (as in Second Year Medicine).
Physics 3A.
Histology and Embryology (as in Second Year Medicine).
Botany 4.
Zoology 4 and 7.

Fourth Year.

Chemistry 7 and 10.
Anatomy (as in Second Year Medicine) *or* Special Advanced Biology.
Physiology (as in Third Year Medicine).

### IV. HONOUR COURSE FOR THE DEGREE OF B.Sc.

Students proposing to take an Honour Course must select one principal subject from Group 1 (page 143), in which subject they must have obtained at least high second class standing in the First Year. If the subject chosen for honours is not offered in the First Year, an aggregate standing of high second class must be obtained in all subjects of the First Year.

Students who fail to retain their honour standing will be required either (1) to repeat the year in honours or (2) to repeat the year in the ordinary course or (3) to proceed to the following year, reverting to the ordinary course at the discretion of the B.Sc. Advisory Committee.

The exact courses of study will be specified by the department concerned. All students will be required to take a course in German 4.

## V. COURSE IN ENGINEERING PHYSICS.

There is an increasing demand for men with an advanced knowledge of Mathematics and Physics, who are capable of conducting investigations of a research character. With a suitable training, openings in this field of work may be found in Research Laboratories of the Government and of Electric Corporations, in consulting work, and in University appointments.

In view of these facts, a course in Engineering Physics leading to the degree of B.Sc. in Arts has been arranged. It is open to capable students in Arts or Applied Science:

1. To students in Arts entering their Third or Fourth Year, provided they have satisfactorily passed in the following prerequisites:—

**Mathematics 2, 3, 4(a).**

**Physics 1 (*or* 2), 3A, 3B, 4.**

2. To students in Applied Science who have completed the Second Year and have received first or second class rank in Mathematics and Physics, subject to the approval of the Heads of the Departments of Electrical Engineering and Physics.

### Third Year.

**Mathematics 5, 6, 4B** (page 175).

**Physics 5A, 5B, 6B (*or* 8B)** (page 184).

**Electrical Engineering 113, 114** (see page 265).

During their summer vacation at the end of the Second Year, students must spend three months at an approved shop or radio station.

### Fourth Year.

**Mathematics 9** *or* **10** (page 176).

**Physics 6A, 7A, 7B, 8A and 6B (*or* 8B).** (See page 184).

(Summer Thesis or Shop Work.)

The student may now receive the degree of B.Sc. in Arts, with honours in Mathematics and Physics. In the Fifth Year the student should take the whole of the Fourth Year course for Electrical Engineering. (See page 235) and also Physics 9 and 12 *or* 14 (6A has already been taken), and proceed with research work and a thesis with a view to an M.Sc. degree.

The course must therefore cover five years and should cover six. During the last year (the sixth), opportunity would usually be afforded to act as demonstrator with a salary.

## VI. DEGREE OF B.Sc. IN AGRICULTURE (B.Sc. in Agr.).

A four-year professional course, leading to the degree of Bachelor of Science in Agriculture (B.Sc. in Agr.), designed to prepare students to teach science and agriculture subjects in the academies of the province,

is offered by the Faculty of Arts, McGill University, and Macdonald College.

This course is endorsed by the Faculties of Arts, Science and Agriculture of McGill University, and approved by the Protestant Committee of the Council of Public Instruction of the Province of Quebec.

The main object of this course is to improve science teaching, and to provide for a variety of subjects that are at present outside the qualifications of the existing academy teachers.

**First Year (at McGill).**

**English, 1 and 2.**
**Mathematics 1.**
**French 13.**
**German 3.**
**Zoology 1.**
**Botany 2.**
**Chemistry 1.**
**Education 1.**

**Second Year (at McGill).**

**English 4.**
**French 2.**
**Botany 3.**
**Zoology 2.**
**Chemistry 2.**

**Third and Fourth Years (at Macdonald College).**

The work of the Third and Fourth Years of this course is taken at Macdonald College. For a detailed statement of the studies included therein, write to the Principal, Macdonald College, Que.

## VII. DEGREE OF BACHELOR OF HOUSEHOLD SCIENCE (B.H.S.).

The first two years are to be taken in the Faculty of Arts of McGill University (or of any other University provided similar courses are studied), and the last two in the School of Household Science of Macdonald College, but the Dean, or the B.A. Advisory Committee of the Faculty of Arts of McGill University, must pronounce on the qualifications of a candidate before he or she can be admitted to the Third Year of this course.

The two years in the Faculty of Arts may be either in the B.A. or the B.Sc. course as follows:—

**B.A. Course—First Year.**

*Compulsory:*

**Greek 1** *or* **2, *or* Latin 1.**
**English 1 and 2.**
***Mathematics 1.**
**Chemistry 1.**

And any two of the following:

**History 1.**
**Latin 1,** *or* **Greek 1** *or* **2.**
(if not already taken.)
**French 1.**
**German 1** *or* **2.**

*If three languages (exclusive of English) are taken Mathematics may be omitted.

### Second Year.

Students shall choose two subjects out of Division I and one out of Division II; or two out of Division II and one out of Division I. In addition they must take two other subjects. One of these must be Chemistry. The other may be chosen from any of the divisions.

| Division I. | Division II. | Division III. | Division IV. |
|---|---|---|---|
| Greek. | History. | Botany. | Education. |
| Latin. | Philosophy. | Chemistry. | Music. |
| English. | Economics. | Geology. | |
| French. | Pol. Science. | Physics. | |
| German. | Social Science. | Zoology. | |
| Hebrew. | Mathematics. | | |
| | Psychology. | | |

### B.Sc. Course—First Year.

| | |
|---|---|
| Chemistry 1. | German 3. |
| English 1 and 2. | Mathematics 1. |
| French 13. | Physics 1 *or* 2. |

### Second Year.

English *or* French *or* German.

Biology (Botany 2 and Zoology 1); Chemistry 2.

And one course from among the following: Geology 1; Mathematics 2; Physics 2 *or* 3A; Economics 1 *or* 2; English 4; History 2; Philosophy 1; Psychology 1; Social Science 1.

### Third Year (at Macdonald College).

| | |
|---|---|
| Bacteriology 4. | Foods 2, 6. |
| Biology 2. | Principles of Teaching 1. |
| Chemistry 5. | Textiles and Clothing 4. |
| Economics 2. | The Home 1, 2. |
| English 2. | |

### Fourth Year (at Macdonald College).

| | |
|---|---|
| Bacteriology 5, 6. | Physics 3. |
| Chemistry 6. | Principles of Teaching 2. |
| Dietetics 2, 3. | The Institution 3. |
| English 3. | |

For details of the work in each course see Macdonald College Announcement.

## PARTIAL STUDENTS.

Students desiring to take a Partial Course in Arts are required to pass the matriculation examination in the subject or subjects which they intend to study, or, failing this, they must satisfy the Head of the Department as to their ability to follow the course. Subject to the above limitations, lectures are open to partial students in both Honour and Ordinary Courses, but no course or courses taken by such students can count for a degree, except by virtue of a special vote of Faculty. Medals, scholarships, exhibitions and prizes shall not be awarded to partial students. A certificate of standing can be obtained from the Dean if requested. A partial student who fails in any subject at the first term examinations shall be allowed to continue that subject only on the recommendation of the Head of the Department concerned.

## LIMITED UNDERGRADUATES.

Students who have matriculated, but who for special reasons are not able to follow the regular curriculum of four years, may, if those reasons appear satisfactory to the Dean, be accorded the status of Limited Undergraduates. Such Limited Undergraduates may distribute their work for the degree over five, but not over more than eight years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular undergraduate curriculum, and shall conform to the time-table.

Limited Undergraduates will not be eligible for Honour courses, scholarships, exhibitions, bursaries or prizes of any description. For fees see page 109.

## EXAMINATIONS IN ARTS.

There are two examinations in each session, the Mid-sessional and the Final. Mid-sessional Examinations are held either at the end of the first term, or at such intervals during the session as each department may prescribe. In the Second, Third and Fourth Years, Mid-sessional Examinations will be held or not, as may be determined by each department.

Students prevented by illness from attending the Mid-sessional Examinations will, on presenting a medical certificate to the Dean, be given sessional standing on the result of the Final Examination.

Seventy-five per cent. of the marks given for the sessional work in each subject will be assigned to the Final Examination.

Successful students are arranged in three classes.

*Distinction in an Ordinary Degree.*—For an ordinary degree with distinction the candidate shall obtain 75 per cent. of the maximum marks assigned in half the subjects taken in the Third and Fourth Years and not less than 60 per cent in the remainder.

Examinations supplemental to Final Examinations are held in the month of September simultaneously with the matriculation examination. The date of the supplemental examinations will be fixed by the Faculty and no examination will be granted at any other time, except by special permission of the Faculty, and on payment of a fee of ten dollars.

### ADVANCEMENT FROM YEAR TO YEAR.

*Advancement to the Second Year.*—A student may proceed to the Second Year with any one full course (or its equivalent) unpassed. (This cannot, however, be a Junior Matriculation subject.)

*Advancement to the Third Year.*—A student may proceed to the Third Year with any one full course (or its equivalent) unpassed, unless that full course (or any part of it) belongs to the First Year.

*Advancement to the Fourth Year.*—A student may proceed to the Fourth Year with any one full course (or its equivalent) unpassed, unless that full course (or its equivalent) belongs to the Second Year of his course.

*Repeating a Year.*—By special permission of the Faculty, a student who is required to repeat a Year may, on application:—

(a) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed;

(b) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following Year in his course.

N.B.—The choice of subjects must involve no conflict of hours as printed in the time-table.

# DOUBLE COURSES.

## I. ARTS AND APPLIED SCIENCE.

Candidates for the degrees of B.A. and B.Sc. (Applied Science) in six years will take the first three years in Arts. They will then enter the Faculty of Applied Science and devote the remaining three years entirely to the work of that Faculty. Only students in good standing will be permitted to take the course Those who wish to do so must notify the Dean of the Faculty of Applied Science before the close of their First Year in Arts (May).

*Descriptive Geometry, Freehand Drawing and Mechanical Drawing.*—Not later than October 10th of their Second Year in Arts students intending to enter this course must see the Heads of the Departments concerned and make arrangements with them for procuring private instruction in these subjects. They must report to them from time to time, and after they have given evidence of having covered the ground adequately they will be given an examination.

*Shop-work.*—The shop-work may be taken in two periods of two weeks each in successive years in the second half of May *immediately after* the close of the Arts examinations.

*Surveying.*—One half of their surveying field work may be done in the fortnight *immediately after* the completion of their Third Year; the rest of it in the latter part of the following September in connection with the Survey School then held for Fourth Year Civil Engineering students. In some cases it may be possible to do the whole of the survey fieldwork in September in the School mentioned above. Students desiring to do this should apply to the Dean of the Faculty of Applied Science not later than the 1st of May.

The requirements for each of the three years in the Faculty of Arts are as follows:—

### First Year.

The curriculum as laid down for the B.A. degree, except that Physics and Mathematics and a modern language must be taken.

### Second Year.

**French 2** *or* **German 5** (both continuation subjects).
**Mathematics 2 and 4A.**
**Physics 3B and 4.**

And two of the following:—

**Economics,** Course 1 in the Department of Economics and Political Science.

**English** 4, 6, 7 *or* 8.

**French** 2 (if not already taken).

**German** 5 (if not already taken).

**Greek** 2 *or* 4.

**History** 2.

**Latin** 2.

**Philosophy** 1.

**Political Science,** Course 2 in the Department of Economics and Political Science.

**Psychology** 1.

### Third Year.

**Physics** 2.

Any three of the following:—

**English,** any one of 4 to 11 inclusive, 15, 18; **Latin** 4; **French** 4; **German** 7; **Philosophy** 2 *or* 4 *or* 6; **Psychology** 2 *or* 3 *or* 4 *or* 5; **History** 3 *or* 4; **Economics and Political Science** 3 to 15 (any full course *or* the equivalent of a full course).

The degree of B.A. will be conferred on double course students in Arts and Applied Science on the completion of the prescribed curriculum in Arts and the requirements of the Second Year in Applied Science.

### II. ARTS AND ARCHITECTURE.

Candidates for the degrees of Bachelor of Arts and Bachelor of Architecture will take the first three years in Arts to be followed by four in Architecture, omitting the First Year.

Students entering Arts by Senior Matriculation will not be exempted from the operation of this rule. The student must also choose at least two subjects for continued study during his three years in this Faculty. These subjects shall be designated continuation subjects and in each of them at least one full course or two half courses must be taken each year. The following are recommended as suitable continuation subjects, viz., Mathematics, Latin, English, History.

Students who wish to take this double course must notify the Dean of the Faculty of Applied Science before the close of their First Year in Arts.

Not later than October 10th, of their Second Year in Arts, students intending to take this course must make arrangements with the Head of the Architectural Department for procuring private instruction in Freehand Drawing, Architectural Drawing, and Architectural Geometry. They will be required to report from time to time as to their progress and pass an examination in these subjects before entering the course in Architecture.

The degree of B.A. will be conferred on the completion of the prescribed curriculum in Arts and the Second Year in Architecture.

### III. ARTS AND MEDICINE.

The degrees of B.A. and M.D. may be obtained in eight years, of which the first three shall be taken in the Faculty of Arts and the remaining five in the Faculty of Medicine. The course in Arts is as follows:—

#### (*1*) *B.A., M.D.*

#### First Year.

The subjects of the First Year shall be the same as those for the First Year of the B.A. course, with Physics, compulsory.

#### Second Year.

**Chemistry 1** and any four subjects of the Second Year of the B.A. course.

#### Third Year.

**Chemistry 2** and **Biology** and any three subjects of the Third Year of the B.A. course.

The degree of B.A. will be conferred on the completion of the above curriculum in Arts and of the First Year in Medicine.

#### (*2*) *B.Sc., M.D.*

For the requirements of the B.Sc., M.D. course see page 144.

### IV. ARTS AND DENTISTRY.

Requirements for the double course leading to the degrees of B.A. and D.D.S. are now under consideration and will be announced in due course.

### V. ARTS AND COMMERCE.

The requirements for students who have taken the four-year course in commerce are now under consideration and will be announced in due course.

### VI. ARTS AND THEOLOGY.

Students who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these Years, or a whole course in either. They may also select one instead of two sciences in Division III of the Ordinary Course, provided always that they have already taken a Science subject in the first year.

## COURSES OF LECTURES IN ARTS.

**The hours of all ordinary lectures and most of the honour lectures are indicated. In the case of the other honour lectures the hours will be arranged by the several departments at the opening of the session.**

### DEPARTMENT OF BOTANY.

PROFESSOR:—FRANCIS ERNEST LLOYD.

PROFESSOR OF MORPHOLOGICAL BOTANY:—CARRIE M. DERICK.

ASSISTANT PROFESSOR:—GEORGE W. SCARTH.

DEMONSTRATOR:—JENNIE L. SYMONS.

1. **General Biology (Plants).** Parts I (October) and III (March to April) as in First Year Medicine.
3 hrs.; Tu., Th., Sat., at 12..6 hrs. lab.
Professor Lloyd, Mr. Scarth.
(Mornings, alternating with Chemistry I.)

2. **General Botany.** Introductory Course. First Year.
2 hrs., 2nd term; Wed., Fri., at 2..2 hrs. lab.; Mon. 2-4.
Professor Lloyd, Mr. Scarth, and Miss Symons.
(Taken with Zoology 1 as 1st year Biology.)

3. **Plant Morphology and Taxonomy.**. Second Year.
3 hrs.; Tu., Th., Sat., at 9..4 hrs. lab.
Professor Derick, Miss Symons.

4. **Evolution and Genetics.** Second or Third Year.
2 hrs.; Mon., Wed., Fri., at 9..2 hrs. lab.
Professor Derick, Miss Symons.
(May be taken without laboratory work.)

5. **Histology: Microtechnic.** Second or Third Year.
3 hrs.; Mon., Wed., Fri., at 2..4 hrs. lab.
Professor Lloyd, Miss Symons.

6. **Introductory General Physiology.** Third or Fourth Year Arts, Second Year Medicine.
3 hrs, one term; Mon., Wed., Fri., at 9..4 hrs. lab.
Professor Lloyd, Mr. Scarth, Miss Symons.

7. **Plant Pathology.** Fourth Year.
3 hrs.; Mon., Wed., Fri., at 2..4 hrs. lab.
Professor Derick, Miss Symons.

8. **Plant Physiology: Problems.** Third or Fourth Year Arts. 2nd term.
3 hrs. reading..4 hrs. lab.....Professor Lloyd, Mr. Scarth

Note:—Courses 6 and 8 constitute plant physiology for one year.

9. **Pharmaceutical Botany.** 2 hrs.....Miss Symons

10. **Taxonomy: Method.**
A short course in April on request.

HONOUR COURSE IN BIOLOGY.

Prerequisites: General Biology, Parts I, II and III. (Botany 1 and Zoology 0; *or* Botany 2 and Zoology 1, together with Chemistry 1 *or* Physics 1.)

Second Year: Botany 3 and 4 (with laboratory work); Zoology 2; Physics 1, *or* Chemistry 1.

Third Year: Botany 5 and 6; Zoology 3 and 6.

Fourth Year: Botany 7 and 8; Zoology 4 and 5.

Honour students should acquire a reading knowledge of scientific French and German. For Genetics and Physiology an elementary knowledge of statistical methods is advised.

GRADUATE COURSES.

See page 449.

## DEPARTMENT OF CHEMISTRY.

DIRECTOR:—R. F. RUTTAN.
PROFESSOR OF BIO-CHEMISTRY:—A. B. MACALLUM.
PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.
PROFESSOR OF PHYSICAL CHEMISTRY:—OTTO MAASS.
PROFESSOR OF ORGANIC CHEMISTRY:—G. S. WHITBY.
ASSOCIATE PROFESSOR:—N. N. EVANS.

ASSISTANT PROFESSORS:—
- A. R. McLEAN.
- W. H. HATCHER.

DEMONSTRATORS:—
- P. LAROSE.
- A. CAMBRON.
- G. W. HOLDEN.
- R. S. JANE.
- F. H. YORSTON.
- E. W. R. STEACIE.
- K. W. HUNTEN.
- C. SIVERTZ.

(Unless otherwise specified, all lectures and laboratory courses are given in the Chemistry Building.)

1. **General Chemistry.**
3 hrs.; Mon., Wed., Fri.
Section A—Professor Ruttan at 12.
Section B—Associate Professor Evans at 3.
4 hrs. lab., Tu., Th., 3 to 5.
Assistant Professor MacLean and Messrs. Cambron, Holden and Sivertz.

*Text-Books:*—Alex. Smith, General Chemistry for Colleges, new edition; Smith's Intermediate Chemistry.

2. **Organic Chemistry** (No. 56 Fac. App. Sci.).
3 hrs., 1st term; Tu., Th., Sat., at 12.....Professor Ruttan.
2 hrs., 2nd term; Th. and Sat., at 12.....Professor Ruttan.
6 hrs. lab., 2nd term. Professor Whitby, Assistant Professor MacLean, and Messrs. Cambron, Hunten and Jane.

*Text-Books:*—Remsen or Perkin and Kipping; Norris' Experimental Organic; Moureu's Organic Chemistry.

3. **Analytical Chemistry.**
(a) Qualitative Analysis.
1 hr., 1st term; 9 hours lab.
Associate Professor Evans and Messrs. Cambron and Hunten. Cambron and Thomson.

*Text-Book:*—Stieglitz, Quantitative Analysis.
(b) Quantitative Analysis.
1 hr., 2nd term; 12 hrs. lab.
Professor Johnson and Messrs. Larose, Sivertz and Steacie.

*Text-Book:*—Cumming and Kay, Quantitative Analysis.

4. **Elementary Physical Chemistry** (No. 58 Fac. App. Sci.).
2 hrs., 1st term; Mon., Fri., at 12.....Professor Maass.

*Text-Book:*—Walker, Introduction to Physical Chemistry.

*5. **Organic Chemistry (Advanced)** (No. 64 and 65 Fac App. Sci.
3 hrs.; Mon., Wed., Fri., at 10.....Professor Whitby.
12 hrs. lab.
Professor Ruttan, Professor Whitby, Assistant Professor MacLean, and Messrs. Jane and Cambron.

*6. **Inorganic Chemistry (Advanced)** (No. 72 Fac. App. Sci.).
3 hrs.; Tu., Th., Sat., at 11.....Professor Johnson.

*7. **Physical Chemistry (Advanced)** (No. 66 Fac. App. Sci.).
2 hrs.; Wed., Fri., at 9.....Professor Maass.
6 hrs. lab.; Mon., Wed., 2 to 5. Professor Maass.

*Courses for Graduates and Honour Students.

8. **Quantitative Analysis (Advanced)** (No. 62 Fac. App. Sci.).
1 hr., Professor Johnson and Messrs. Larose, Cambron and Jane.
12 hrs. lab.

9. **Historical Chemistry** (No. 74 Fac. App. Sci.).
1 hr., 2nd term.....Professor Maass.

10. **Biological Chemistry.**
2 hrs., 2nd term; Tu. and Th., at 12.
Professor A. B. Macallum.
(Biological Building.)
6 hrs. lab., 2nd term; Tu. and Fri., 2 to 5.
(Biological Building.)
Professor A. B. Macallum and Assistant Professor Simpson.
*Text-Book:*—Hawk, Practical Physiological Chemistry.

*11. **Biological Chemistry (Advanced).**
5 hrs. lab., 2nd term.
(Biological Building.)
Professor A. B. Macallum and Assistant Professor Simpson.

12. **Electro-Chemistry** (No. 70 Fac. App. Sci.).
2 hrs., 1st term; Mon., at 9, Fri., at 12.....Professor Maass.

13. **Food Chemistry** (No. 73 Fac. App. Sci.).
1 hr., 2nd term; Th., at 10.....Professor Ruttan.
6 hrs. lab., 2nd term.
Professor Whitby and Assistant Professor MacLean and Messrs. Cambron and Jane.
*Text-Book:*—Woodman's Food Analysis.

14. **Industrial Inorganic Chemistry** (No. 68 Fac. App. Sci.).
2 hrs., 1st term; Wed., Fri., at 11.....Professor Johnson.

15. **Industrial Organic Chemistry** (No. 69 Fac. App. Sci.).
2 hrs., 2nd term; Wed., Fri., at 11.
Professor Ruttan and Associated Experts.

*16. **Colloid Chemistry** (No. 75 Fac. App. Sci.).
2 hrs., 2nd term, with lab.....Professor Johnson.

### Honour Course in Chemistry.

Second Year: Chemistry 1.

Third Year: 2, 3, 4; Physics 2; and a half-course in Calculus or Biology or Geology or Mineralogy or scientific German.

Fourth Year: (a) 5, 7, 9, 10 (11 optional), or (b) 6, 7, 8, 9; Physics 3 (a).

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*Courses for Graduates and Honour Students.

HONOUR COURSE IN CHEMISTRY AND BIOLOGY.

Prerequisites: French 13; German 3; Physics 1.
Second Year: Chemistry 1; Botany 2; Zoology 1; French 2 and German 4.
Third Year: Either Physics 2 or French 4 or German 7 and Chemistry 2 (first term only), 3 (a) and 10; Zoology 2; Botany 3 or 6.
Fourth Year: A full course in Physics or Biology or advanced Chemistry and Chemistry 3 (b), 11 or 16; Zoology 4; Botany 5.

GRADUATES COURSES.

See page 445.

## DEPARTMENT OF CLASSICS.

PROFESSOR:—W. D. WOODHEAD.
PROFESSOR OF GREEK:—SAMUEL B. SLACK.
ASSISTANT PROFESSORS: ALEXANDER M. THOMPSON. CLIVE H. CARRUTHERS.
SESSIONAL LECTURER AND TUTOR (ROYAL VICTORIA COLLEGE):—ELIZABETH A. IRWIN.

### Greek.

All students taking Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: Goodwin's Greek Grammar (Ginn & Co.); Liddell and Scott's Greek Lexicon (abridged or intermediate); Putzger's Historischer Schulatlas (Velhagen und Klasing, Leipzig); Smith's Smaller Classical Dictionary (Everyman Series, Dent).

1. **Beginners' Greek.**
3 hrs.; Section 1 (men); Tu., Th., Sat., at 10. Assistant Professor Carruthers.
Section 2 (women): Tu., Th., Sat., at 10.....Professor Slack.
*Text-Books:*—Burgess and Bonner (Scott, Foresman & Co.); A Greek Reader for Schools (Freeman and Lowe: Clarendon Press).

2. **Greek.** First and Second Years.
3 hrs.; Mon., Wed., Fri., at 11....Assistant Professor Thompson.
Xenophon, Anabasis I and IV (Goodwin and White, Ginn & Co.); Homer, Iliad XXII (Pitt Press Series, Cambridge University Press); Translation at sight (Peacock and Bell, Macmillan).

4. **Greek.** Second Year.
3 hrs.; Tu., Th., Sat., at 11.....Assistant Professor Carruthers
Plato, Apology (Adam, Cambridge University Press); Homer, Odyssey IX, vv. 216-566 (Pitt Press Series, Cambridge University

Press); Euripides, Alcestis (Blakeney, Bell's Illustrated Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Oxford University Press).

5. **Greek.** Third and Fourth Years. Prerequisite: 2 or 4.
3 hrs.; Tu., Th., Sat., at 10.....Assistant Professor Thompson.
Herodotus IX (Evelyn Abbott, Oxford University Press); Demosthenes, On the Peace, Philippic II, Chersonese, Philippic III (Sandys, Macmillan); Sophocles, Oedipus Rex (Shuckburgh-Jebb, Cambridge University Press); Translation at sight (Fowler, Sportella).

6. **Greek.** Third and Fourth Years. Prerequisite: 2 or 4.
3 hrs.; Tu., Th., Sat., at 10. To be given 1925-1926.
Plato, Crito (Stock, Oxford University Press); Aristophanes, Frogs (Merry, Oxford University Press); Aeschylus, Prometheus Bound (Prickard, Oxford University Press); Translation at sight (Models and Exercises in Unseen Translation, Fox and Bromley, Oxford University Press).

HONOUR COURSE IN GREEK.

This will consist of 2 *or* 4, 5, 6 and the following:—

11. **Greek.** Second Year.
3 hrs.; Tu., Th., Sat., at 9.....Professor Slack.
Homer, Odyssey X, XI (Pitt Press Series, Cambridge University Press); Sophocles, Antigone (Wells, George Bell & Sons); Lucian, Menippus (Mackie, Pitt Press Series, Cambridge University Press); Greek Prose Composition and Sight Translation.

12. **Greek.** Third and Fourth Years.
3 hrs.; Tu., Th., Sat., at 11.....Professor Woodhead.
Thucydides VII (Holden, Pitt Press Series, Cambridge University Press); Plato, Republic I, II as far as 367 E (Warren, Republic I-V, Macmillan); Theocritus (Kynaston, Oxford University Press); Translation at sight (Models and Exercises in Unseen Translation, Fox and Bromley, Oxford University Press); Greek Prose Composition.

13. **Greek.** Third and Fourth Years.
3 hrs.; Tu., Th., Sat., at 11.....Professor Slack.
To be given 1925-1926.
Homer; Aristotle, Ethics I-IV; Aeschylus, Agamemnon; Translation at sight (Models and Exercises in Unseen Translation, Fox and Bromley, Oxford University Press).

## Latin.

All students taking Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended:—New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School

Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman Series, Dent).

The following books are also recommended: Roman History, Literature and Antiquities, by A. Petrie (Oxford University Press); Putzger's Historischer Schulatlas (Velhagen und Klasing, Leipzig).

1. **Latin.** First Year.

3 hrs.; Mon., Wed., Fri., at 10.

Section 1 (men), Professor Woodhead; section 2 (men) Assistant Professor Thompson; section 3 (women), Assistant Professor Carruthers; section 4 (women), Professor Slack.

Petrie, Latin Reader, with Introduction to Roman History (Oxford, Clarendon Press); North and Hillard, Latin Prose Composition (Rivingtons); Translation at sight.

2. **Latin.** Second Year.

3 hrs.; Tu., Th., Sat., at 12.....Assistant Professor Thompson.

Livy, Book XXI (Dimsdale, Pitt Press); Horace, Odes, Book II (Page, Macmillan's Elementary Classics); Terence, Phormio (Sloman, Clarendon Press); Translation at sight (Jerram, Anglice Reddenda, Second Series, Oxford University Press).

3. **Latin.** Third and Fourth Years.

3 hrs.; Tu., Th., Sat., at 9.....Professor Woodhead.

Cicero, Letters (Abbott, Ginn & Co.); Plautus, Captives (Morris, Ginn & Co.); Tacitus, Agricola (Furneaux-Anderson, Clarendon Press), Translation at sight (Alford, Macmillan).

4. **Latin.** Third and Fourth Years.

3 hrs. To be given in 1925-1926.

Pliny, Selected Letters (Westcott, Allyn and Bacon); Selections from the Roman Elegiac Poets (Carter, D. C. Heath); Martial (Post, Ginn & Co.); Translation at sight (Alford, Macmillan).

5. **Latin.**

Professor Slack.

At the beginning of the second term, if not before, an advanced class will be formed to prepare for Second and Third Year Scholarships. This class will be open to qualified students of the first two years.

HONOUR COURSE IN LATIN.

This will consist of 2, 3, 4 and the following:—

11. **Latin.** Second Year.

3 hrs.; Mon., Wed., Fri., at 9....Assistant Professor Carruthers.

Cicero, Pro Milone (Poynton, Clarendon Press); Catullus (Macmillan, Clarendon Press); Lectures on Roman Literature; The Writers of Rome (J. Wight Duff, Oxford Clarendon Press); Latin Prose Composition.

**12. Latin.** Third and Fourth Years.

3 hrs.; Mon., Wed., Fri., at 9.....Assistant Professor Thompson.

Livy I (Freeman, Oxford); Lectures on the History of the Republic; Tacitus, Annals I, II (Furneaux, Annals I-IV, Oxford); Lectures on the History of the Empire; Latin Prose Composition.

**13. Latin.** Third and Fourth Years.

3 hrs. To be given in 1925-1926.

Juvenal I, III, V, VII, VIII, X (Wilson, D. C. Heath); Suetonius, Tiberius and Nero (Pike's Suetonius, Selected Lives, Allyn and Bacon, Boston).

ADDITIONAL READINGS:—

Third Year:—Horace, Epistles II (Wilkins, Macmillan); Virgil, Aeneid 6 (Sidgwick, Clarendon Press).

Fourth Year:—Seneca (Select Letters, Summers, Macmillan, pp. 3-51); Virgil, Georgics I and IV.

HONOUR COURSE IN CLASSICS.

**Greek:** 2 or 4, 5, 6, 11, 12, 13.
**Latin:** 2, 3, 4, 11, 12, 13.

GRADUATE COURSE IN CLASSICS.

See page 433.

## DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE.

PROFESSOR:—STEPHEN LEACOCK.

ASSOCIATE PROFESSORS:— J. C. HEMMEON. J. P. DAY.

ASSISTANT PROFESSOR:—JOHN C. FARTHING.

GRADUATE FELLOW:—E. W. WILLARD (1923-24).

1. **Elements of Political Economy.** Second Year.
3 hrs.; Mon., Wed., Fri., at 11.
Professor Leacock and Associate Professor Hemmeon.

2. **Elements of Political Science.** Second Year.
3 hrs.; Mon., Wed., Fri., at 12.
Professor Leacock and Associate Professor Hemmeon.

3. **Political and Social Theories of Modern Times.** Third Year.
3 hrs.; Mon., Wed., Fri., at 2.....Professor Leacock.

4. **Labour Problems.** Third Year.
3 hrs., 1st term: Tu., Th., Sat., at 11.
Associate Professor Hemmeon.

5. **Money and Banking.** Third Year.
3 hrs., 2nd term: Mon., Wed., Fri., at 10.
Associate Professor Day.

6. **The Government of Canada.** Third and Fourth Years.
3 hrs., 1st term, in alternate years, beginning 1925-26:
Mon., Wed., Fri., at 3.....Professor Leacock.

7. **Canada: Industrial and Economic Problems.** Third and Fourth Years.
Second term, in alternate years, beginning 1925-26.
Tu., Th., Sat., at 11.....Associate Professor Hemmeon.

8. **Political Economy till 1776.** Third and Fourth Years.
First Term, in alternate years, beginning 1924-25.
Tu., Th., Sat., at 11.....Associate Professor Hemmeon.

9. **Political Economy from 1776.** Third and Fourth Years.
Second Term, in alternate years, beginning 1924-25.
Mon., Wed., Fri., at 3.....Professor Leacock.

10. **International Trade, Trade Policy and Transportation.** Fourth Year.
First Term, Mon., Wed., Fri., at 10..Associate Professor Day.

11. **Public Finance.** Fourth Year.
Second Term, Tu., Th., Sat., at 12.
Associate Professor Hemmeon.

12 **Social and Industrial Legislation.** Fourth Year and Graduate Students.
First Term, in alternate years, beginning 1925-26.
Mon., Wed., Fri., at 12.....Assistant Professor Farthing.

13. **Great Britain: Economic and Fiscal Problems.** Fourth Year and Graduate Students.
Second Term, in alternate years, beginning 1925-26.
Mon., Wed., Fri., at 12.....Associate Professor Day.

14. **Economic Factors in the Evolution of Society (till 1800).** Fourth Year and Graduate Students.
First Term, in alternate years, beginning 1924-25.
Mon., Wed., Fri., at 12.....Assistant Professor Farthing.

15. **Economic Factors in the Evolution of Society (after 1800).** Fourth Year and Graduate Students.
Second Term, in alternate years, beginning 1924-25.
Mon., Wed., Fri., at 12.....Associate Professor Day.

For the courses in Economics and Political Science given in the School of Commerce, see announcement of that Department.

HONOUR COURSE.

Students taking the full honour course in Economics and Political Science take in their Second Year courses 1 and 2, together with three other courses as approved by the Department; and in their Third and Fourth Years the courses indicated above, together with one approved course from another department in each year.

Students taking honour courses in the whole or in half of another department (see page 40) may be granted honours in Economics (without Political Science) by taking courses 1, 2, 4, 5, 10, 12 *or* 14 and either 6 and 7, *or* 8 and 9; similarly, students taking honour courses in the whole or in half of another department may be granted honours in Political Science (without Economics) by taking courses 1, 2, 3, 11, 13 *or* 15 and either 6 and 7, *or* 8 and 9.

GRADUATE COURSES.

See page 441.

## DEPARTMENT OF EDUCATION

DEAN OF THE SCHOOL FOR TEACHERS, MACDONALD COLLEGE, AND PROFESSOR OF EDUCATION:—SINCLAIR LAIRD

1. **Principles of Education; Psychology of Education; History of Education.**

   3 hrs., 1st term; Mon., Wed., Fri., at 5.

   (To be taken preferably in the Third Year.)

2 (1) **Methods of Teaching.**

   A. Principles of general method.
   B. Special methods in elementary subjects
   C. Special methods in High School subjects.

   **(2) School and Class Management.**

   A. School administration, and school law and regulations of the Province of Quebec.
   B. Class management and discipline.

   3 hrs., 2nd term; Mon., Wed., Fri., at 5

   (To be taken in the Fourth Year.)

Courses 1 and 2 are required for the High School Diploma of the Province of Quebec, together with (a) fifty half-days of practice teaching and criticism lessons under expert supervision; and (b) special courses in methods of teaching French, music and drawing.

## THE TRAINING OF TEACHERS.

### THE HIGH SCHOOL DIPLOMA.

The Protestant Central Board of Examiners of the Province of Quebec have laid down the following requirements for the High School Diploma:—

1. Graduation from some Canadian or other British University, with degree courses that are considered by the Central Board satisfactory preparation for the work of the teacher.

2. The successful completion of courses 1 and 2 in the Department of Education.

3. Successful completion of special courses in methods of teaching French, music and drawing.

4. Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board).

Candidates for this, the highest teaching diploma of the Province, are recommended to take courses 1 and 2 in the Department of Education during the last two years of their undergraduate course, preferably Course 1 in the Third Year and Course 2 in the Fourth Year.

### ELEMENTARY, INTERMEDIATE AND KINDERGARTEN DIPLOMAS.

The training for these diplomas is given at Macdonald College. (See Macdonald College Announcement.)

### COURSES FOR TEACHERS OF SPECIAL SUBJECTS.

**French.** A summer school for teachers of French leading to a Specialist Diploma recognized by the Council of Public Instruction.

**Kindergarten Assistants.** A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Council of Public Instruction. This diploma is accepted for entrance to the Kindergarten class at Macdonald College. (The course is conducted by the School for Teachers, Macdonald College.)

Particulars of the above courses, which are published separately, may be obtained on application to the Registrar.

**Physical Education.** A two-years' course leading to a diploma for Teachers in Physical Education recognized by the Council of Public Instruction. (This course is given under the Department of Physical Education.)

## DEPARTMENT OF ENGLISH.

PROFESSOR OF ENGLISH:—CYRUS MACMILLAN.

ASSOCIATE PROFESSOR:—GEORGE W. LATHAM.

ASSISTANT PROFESSORS:— { HAROLD G. FILES. ————

LECTURER:— ————.

ASSISTANTS:— { A. R. MCBAIN. MISS M. C. EDWARDS. MAXWELL MACODRUM. STANLEY M. E. READ.

1. **English Composition.**
Sat. at 12.....
Assistant Professor ————, Miss Edwards, Messrs. MacOdrum, Read and Walter.
Assistant Professor Files will have the general direction of this course. Section and weekly conference hours to be arranged.

2. **English Literature.**
General Course from Anglo-Saxon times to the present day.
Tu., Th., and, at the pleasure of the instructor, Sat., at 12
Professor Macmillan and Assistants.
Weekly conference hours to be arranged. Mr. McBain will have the general direction of the tutorial conferences.

3. **English Composition.**
Half course. An advanced course open to a limited number of students who desire more practice in writing after having completed English 1.
Hours to be arranged.....Assistant Professor Files.

4. **English Literature of the Nineteenth Century.**
Mon., Wed., Fri., at 3.....Associate Professor Latham.
Open to second year students. With the consent of the instructor Course 4 may be taken in either term as a half course.

5. **Spenser and Milton.**
Half course, 2nd term. Mon., Wed., Fri., at 9.....
Associate Professor Latham.

6. **Shakespere (Six Plays).**
Mon., Wed., Fri., at 10.....Professor Macmillan
May be taken in two successive years. Open to a limited number of Second Year students.

7. **English Literature from the Restoration to 1798.**
Tu., Th., Sat., at 10.....Assistant Professor Files.
Open to Second Year students. With the consent of the instructor course 7 may be taken in either term as a half course.

8. **Argumentation, Debating, and the Forms of Public Address.**
Tu., 3 to 5; conference to be arranged.....
Associate Professor Latham, Assistant Professor ————— and Assistants.
The attendance in this course is limited to 40 men.

9. **English Poets of the Nineteenth Century.**
Mon., Wed., Fri., at 11.....Professor Macmillan.
Given in 1924-25; omitted in 1925-26. With the consent of the instructor course 9 may be taken in either term as a half course.

10. **The English Novel, from Richardson to the Present Time.**
Tu., Th., Sat., at 11.....Assistant Professor Files.
With the consent of the instructor course 10 may be taken in either term as a half course.

11. **The English Drama, 1590-1642.**
Mon., Wed., Fri., at 11.....Professor Macmillan
Omitted in 1924-25; given in 1925-26.

12. **Anglo-Saxon.**
Half course, 1st term. Mon., Wed., Fri., at 2.
Associate Professor Latham.

13. **Anglo-Saxon Poetry and Introduction to English Philology.**
Half course, 2nd term. Mon., Wed., Fri., at 2.
Associate Professor Latham.
Prerequisite,—12 or its equivalent.

14. **Chaucer.**
Half course, 1st term; Mon., Wed., Fri., at 9.
Associate Professor Latham.

15. **American and Canadian Literature.**
Half course, 2nd term. Mon., Wed., Fri., at 12.
Professor Macmillan and Associate Professor Latham.
Omitted in 1924-25, given in 1925-26.

16. **Comparative Literature.**
The influence of English Literature upon the continent of Europe in the 18th and 19th centuries.
Half course, 1st term.....Assistant Professor Files
Omitted in 1924-25.

17. **Comparative Literature.**
The Literary Relations of France and England in the 16th and 17th centuries.
Half course, 1st term. Mon., Wed., Fri., at 12.
Assistant Professor Files.

18. **The English Bible.**
Tu., Th., Sat., at 9.....Professors Gordon and Eakin.
With the consent of the Department course 18 may be taken in either term as a half course.

19. **English Literature, exclusive of the Drama, from the beginning of the Sixteenth century until the Restoration.**
Tu., Th., Sat., at 12.....Assistant Professor ————————,
Omitted in 1924-25.

20. **Early English: English Literature from 1200 to 1450.**
Mon., Wed., Fri., at 9.....Associate Professor Latham.
Open only to students who have taken course 12 or its equivalent. (Omitted in 1924-25).

### Honour Course.

Second Year:—Two courses selected from 4, 6, 7, 8, 15, 18, 19.
Third Year:—Four courses, including 12.
Fourth Year:—Four courses not taken in the Third Year, including 13.

### English requirements for the Honour Courses in English and Latin, English and French, and English and German

Second Year:—Consult the Head of the Department.
Third Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 20, not previously taken.
Fourth Year:—Any courses aggregating six hours a week, including 13, chosen from 4 to 20, not previously taken.

### English requirements for the Honour Courses in English and other subjects.

Second Year:—Consult the Head of the Department.
Third Year:—Courses agregating six hours, chosen from 4 to 20, not previously taken.
Fourth Year:—Any courses aggregating six hours chosen from 4 to 20, not previously taken.

### Graduate Courses.

See page 436.

## DEPARTMENT OF GEOLOGY AND MINERALOGY.

PROFESSOR:—J. AUSTEN BANCROFT.
ASSOCIATE PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM.
ASSISTANT PROFESSOR OF GEOLOGY:—JOHN J. O'NEIL.
ASSISTANT PROFESSOR OF PALAEONTOLOGY:—T. H. CLARK.
LEROY FELLOW IN GEOLOGY:—H. S. WILSON.

1. **General Geology.** (Applied Science 141, in part.)
3 hrs.; Mon., Wed., Fri., at 9...Professor Bancroft and ———
Excursions on Saturday mornings for five or six weeks after term opens. On their discontinuance, 1 hr. lab. Students taking this course will be excused from any classes which conflict with the excursions.
*Text-Book:*—Cleland, Geology, Physical and Historical.

2. **Physiography.**
2 hrs.; Tu., Th., at 12.....Professor Bancroft
Prerequisite:—1.

3. **Historical Geology (Advanced).** (Applied Science 152.)
1 hr.; Mon., at 12, and 1 lab. period in 2nd term on Mon., 2 to 5.
Prerequisite:—1.

4. **Canadian Geology.** (Applied Science 149.)
1 hr., 1st term; Wed., at 11.....Professor Bancroft.

5. **Mineralogy.** (Applied Science 142.)
2 hrs.; Tu. and Th., at 9.....Associate Professor Graham.

6. **Determinative Mineralogy.** (Applied Science 143.)
2 lab. periods of 3 hrs. each during the first term.
Associate Professor Graham

7. **Economic Geology.** (Applied Science 148.)
1 hr., 1st term; Th., at 11.....Professor Bancroft.

8. **Ore Deposits.** (Applied Science 148.)
4 hrs.; 2nd term.....Professor Bancroft.

9. **Optical Mineralogy and Crystallography.**
2 lab. periods, 1st term.
Hours to be arranged.....Associate Professor Graham.

10. **Petrography.** (Applied Science 147.)
1 hr.; 1st term; 1 lab. (3 hrs.) sess.
Professor Bancroft and Associate Professor Graham

11. **Advanced Petrography.**
Laboratory work—all hours to be arranged.
Professor Bancroft.

12. **Palæontology.**
2 hrs.; 3 hrs. lab. All hours to be arranged.

13. **Geological Colloquium.**
One hour per week (to be arranged).
Professors Bancroft, Graham and O'Neil.

HONOUR COURSE.

Second Year:—Geology 1, 5 and 6; Zoology 1; Botany 2; Chemistry 1; English 4.
Third Year:—Geology 2, 3, 4, 9, 10; Chemistry 3.
Fourth Year:—Geology 7, 8, 11, 12, 13; Botany 4 and Zoology 7.

GRADUATE COURSES.

See page 459.

## DEPARTMENT OF GERMANIC LANGUAGES.

PROFESSOR:—H. WALTER.
ASSISTANT PROFESSOR:—E. T. LAMBERT.
LECTURER:—MISS B. MEYER.

1. **German Language.** (Beginners' B.A. Course.)
3. hrs.; Tu., Th., Sat., at 9.
Prof. Walter, Asst. Prof. Lambert, Miss Meyer.

*Texts*:—Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Guerber, Märchen und Erzählungen, Vol. I (Heath); Nichols, Easy German Reader (Holt).

Students intending to proceed to Section A of course 5 are required to study during the summer the following texts: Riehl, Die vierzehn Nothelfer (A.B.Co.); Moser, Der Bibliothekar (Heath); Schrakamp, Ernstes und Heiteres (A.B.Co.); Carrington & Holzwarth, German composition (Heath).

2. **German Language.**
3 hrs.; Tu., Th., Sat., at 10.....Miss Meyer.

*Texts*:—Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Hauff, Die Karawane (Macmillan); Fulda, Talisman (Holt); Collmann, Easy German Poetry (Ginn, Ed. 1913); Carrington & Holzwarth, German Composition (Heath).

Private Readings:

Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (Am. B.Co.).

**3. German.** (Beginners' B.Sc. Course.)

3 hrs.; Tu., Th., Sat., at 10.....Assistant Professor Lambert.

Texts:—Sheldon's Short German Grammar (Heath); Guerber's Märchen und Erzählungen, Vol. I. (Heath); Gore's German Science Reader (Heath).

**4. German Science Reading Course.** Second Year.

3 hrs.; Mon., Wed., Fri., at 5.....Assistant Professor Lambert.

A course in reading Science German is given for students who have matriculated in this language or have taken it in the First Year.

Text:—Gore's German Science Reader (Heath).

**5. German Language.** Second Year.

This Course will be taught in two sections, A and B. Those who have taken Course 2 and those who have completed Course 1 and the additional summer work (see under Course 1) will make up Section A; all others will attend Section B.

Section A: 3 hrs.; Mon., Wed., Fri., at 11....

Professor Walter and Miss Meyer.

Texts:—Harris, German Composition (Heath); Schiller, Der Geisterseher (Oxford Univ. Press); Schiller, Wilhelm Tell (Holt); Goethe, Egmont (Ginn).

Private Readings:

Baumbach, Der Schwiegersohn (Holt); Storm, Auf der Universität (Holt).

Section B: 3 hrs.; Mon., Wed., Fri., at 10....

Professor Walter and Miss Meyer.

Texts: Van der Smissen, German Grammar; Carrington and Holzwarth, German Composition (Heath); Riehl, Die vierzehn Nothelfer (A.B.Co.); Chamisso, Peter Schlemihl (Heath); Goethe, Egmont (Ginn).

**6. German Language, Commerce Course.** Students will receive one hour's instruction in Commercial German and will take two hours in course 5.

**7. German Language.** Second Year. Honour Course.

3 hrs.; Mon., Wed., Fri., at 12.....Assistant Professor Lambert.

Texts:—Wiehr, German Composition (Oxford); Lessing, Minna von Barnhelm; Goethe, Hermann und Dorothea (Ginn); Scheffel, Trompeter von Sälkkingen (Heath); and selections from Nichol's Modern German Reader (Holt).

Private Readings:

Heine, Harzreise (Ginn); Goethe, Sesenheim (Holt).

No student who in his first year took German 1 can proceed to Honours unless he has completed the summer work as given under Course 1.

Honour students in German are strongly recommended to take as one of their ordinary courses Course 1 of the Department of Philosophy (Logic and Introduction to Philosophy).

N.B.—In order to be admitted to the following courses of the Third and Fourth Year a student must know German well enough to take lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. **German Literature (Nineteenth Century).**
3 hrs.; Mon., Wed., Fri., at 9 (given in 1924-25). Professor Walter.

*Texts*:—Kleist, Prinz Friedrich von Homburg (Ginn); Grillparzer, Sappho (Ginn); Hebbel, Agnes Bernauer; Heine, Prose (Oxford Univ. Press); Heine, Verse; Hautpmann, Die versunkene Glocke; Keller, Sieben Legenden; History of Literature, Nineteenth Century (Kluge). Prose Composition.

9. **German Literature (Eighteenth Century).**
3 hrs.; Mon., Wed., Fri., (given in 1925-26).... Professor Walter.

Texts:—Lessing, Emilia Galotti (Ginn); Lessing, Hamburgische Dramaturgie; Goethe, Iphigenie (Pitt Press); Schiller, Wallenstein; Collins, Selections from German Classics (Oxford Univ. Press); Kluge, Geschichte der deutschen Literatur. Prose Composition.

HONOUR COURSES.

10. **Mediæval German Literature and Philology.** Honour Course. (Given in 1924-25.)
1 hr.; Mon., at 4..... Assistant Professor Lambert.

Texts:—Bachmann, Mittelhochdeutsches Lesebuch (Fæsi und Beer, Zürich); Behaghel; Die Deutsche Sprache (Freytag, Leipzig).

11. **Entwicklung der deutschen Lyrik**..... Professor Walter.
1 hr. Given in 1924-25.

12. **Geschichte des deutschen Trauerspiels**..... Professor Walter.
1 hr. Given in 1925-26.

13. **Composition.**
1 hr.

14. **Gothic and Introduction to Germanic Philology.**
1 hr..... Professor Latham.

15. **German Reading Course.**
2 hrs.; Tu., Th., at 4..... Professor Walter.

Intended for Honour students of the Third and Fourth Years and graduate students in other Departments of the Faculty of Arts. No preliminary knowledge of German is required.

The German language alone is used in class instruction in courses 2-12, and, in order to obtain honours, candidates must be able to speak German fluently.

GRADUATE COURSES.

See page 439.

## DEPARTMENT OF HISTORY.

PROFESSORS:— { BASIL WILLIAMS. C. E. FRYER.
ASSOCIATE PROFESSOR:—W. T. WAUGH.
READER:—T. W. L. MACDERMOT.

COURSES FOR ORDINARY STUDENTS.

1. **General History from Origins to the Break-up of the Roman Empire.** First Year.
3 hrs.; Tu., Th., Sat., at 11.....Associate Professor Waugh.

2. **British and European History, 45—1603 A.D.** Second Year.
3 hrs.; Mon., Wed., Fri., at 9.....Professor Fryer.

3. **British and European History, 1603 to the Present Day.** Third Year.
3 hrs.; Mon., Wed., Fri., at 4.....Mr. MacDermot.

4. **History of Canada and the United States.** Fourth Year.
3 hrs.; Mon., Wed., Fri., at 11....Professors Williams and Fryer.

COURSES FOR HONOUR STUDENTS.

Prerequisite:—History 1.

Second Year:

5. **Mediæval and Renaissance History.**
3 hrs.; Tu., Th., Sat., at 10.....Professor Waugh.
History 2; Economics 2; approved courses in French or German and in Latin or German.

Third Year:

6. **English Constitutional History.**
3 hrs.; Tu., Th., Sat., at 9.....Professor Waugh.

7. **European History, 1603-1784.**
3 hrs.; Mon., Wed., Fri., at 12.....Professor Williams.
An approved course in Economics, Latin, French or German and one of the special subjects named below.

Fourth Year:

8. **European History, 1784 to the present day.**
3 hrs.; Tu., Th., Sat., at 9.....Professor Fryer.

**9. European Colonization and Expansion.**
3 hrs.; Mon., Wed., Fri., at 10.....Professor Williams.
History 4 and 9 and continuation of special subject chosen in the Third Year.

Special Subjects:—
The Age of Chaucer and Wycliffe.
The Russo-Turkish War and the Treaty of Berlin.
The Anglo-French Entente of 1904.
Roman Law.
A Period or Aspect of Ancient History.
Federal Constitutions in the British Empire.

NOTE.—A choice of one of these Special Subjects for continuous study by Honour students during their Third and Fourth Years will be made in consultation with the Head of the Department. Other special subjects may be arranged for.

HONOUR COURSE IN HISTORY AND ANOTHER SUBJECT.

History Courses:—
Second Year: 2 and 5.
Third Year: 6 and 7.
Fourth Year: 8 and 9. 4 may be taken instead of one of these courses.

NOTE.—In addition to the examination on the subjects taken up in the last year, Fourth Year Honour students will have a general examination paper on the History studied by them in their four years.

GRADUATE COURSE.

See page 439.

Further particulars of these courses and text-books recommended will be found in the Separate Bulletin issued by the History Department.

## DEPARTMENT OF MATHEMATICS.

PROFESSORS:— D. A. MURRAY (*Chairman*). C. T. SULLIVAN.
ASSOCIATE PROFESSOR:—A. H. S. GILLSON.
ASSISTANT PROFESSORS:— T. H. MATTHEWS. H. TATE. W. L. G. WILLIAMS.

**1. Mathematics.** (For First Year students.)
Geometry and Trigonometry, 3 hrs., 1st term....
Algebra, 3 hrs., 2nd term.....
Four Sections: Messrs. Gillson, Matthews (two sections), Murray.

*Text-books:*—Hall and Knight, Elementary Trigonometry; Carslaw, Plane Trigonometry; Hall and Stevens, School Geometry, Parts I-VI; Hall's School Algebra, Parts I, II.; Bottomley, Logarithmic Tables.

A knowledge of the subject matter of Course I is a prerequisite to course 2 or 3.

2. **Modern Geometry, Trigonometry and Algebra.** (For Second Year and other qualified students.)

Astronomy (London University Tutorial Press); Moulton's Astronomy.

3 hrs.; Mon., Wed., Fri., at 10.....Assistant Professor Matthews.

3. **Analytical Geometry and Calculus.** (An elementary course for Second Year and other qualified students.)

*Text-books:*—Carslaw's Plane Trigonometry; Godfrey and Siddon's Modern Geometry; Hall and Knight, Higher Algebra.

3 hrs.; Tu., Th., Sat., at 12.....Professor Murray.

*Text-books:*—C. Smith, Conic Sections; Murray, Differential and Integral Calculus.

Students in Arts who wish to prepare themselves for advanced courses in Mathematics or for advanced courses in Physics or for work in actuarial science (see courses 7, 8, below), are strongly advised to take both courses 2 and 3 in their second year; those who subsequently proceed to the Honour Course in Mathematics and Physics must have taken courses 2, 3, 4 in their second year.

4. **Spherical Trigonometry and Astronomy.** (For Second Year and other qualified students.)

Spherical Trigonometry; 1 hr., 1st term....
Assistant Professor Matthews.

Astronomy:—2 hrs., 2nd term.....Associate Professor Gillson.

*Text-books:*—Murray, Spherical Trigonometry; Barlow and Bryan, Astronomy (London University Tutorial Press); Moulton's Astronomy.

Spherical Trigonometry may be taken separately from Astronomy by students taking the double course in Arts and Applied Science.

This course can be combined with Physics 4 to form a three-hour course for the year.

A knowledge of the subject matter of courses 2 and 3 is a prerequisite to either of courses 5 and 6.

(For Third Year and other qualified students.)

5. **Analytical Geometry of Three Dimensions; Curve Tracing.**

3 hrs. sess.....Professor Sullivan.

*Text-books:*—C. Smith's Solid Geometry; R. T. J. Bell, Geometry of Three Dimensions.

6. **Infinitesimal Calculus and Differential Equations.** (For Third Year and other qualified students.)

3 hrs. sess.....Associate Professor Gillson.

*Text-books:*—Lamb, Infinitesimal Calculus; Forsyth, Differential Equations (Macmillan); Piaggio, Differential Equations (Bell).

7. **Probability; Finite Differences and Statistics.** (For Third Year and other qualified students.)
3 hrs. sess.....Assistant Professor Tate.
A good knowledge of courses 2 and 3 is a pre-requisite to course 7.

8. **Theory of Life Contingencies.** (For Fourth Year and other qualified students.)
3 hrs. sess.....Assistant Professor Tate.
A knowledge of course 7 is pre-requisite to course 8.

Courses 7 and 8 are mainly planned for students who intend to enter on actuarial work, and are designed as an aid to those who may proceed later to the examinations of the Institute of Actuaries.

9. **General Analysis.** (For Fourth Year and other qualified students.)
3 hrs. sess.....Professor Sullivan.
*Text-books:*—Hardy, Course in Pure Mathematics (Camb. Univ. Press); Carslaw, Introduction to Fourier's Series and Integrals (Macmillan); Byerly, Fourier Series and Special Harmonics.

10. **Theory of Functions and Higher Plane Curves.** (For Fourth Year and other qualified students.)
Theory of Functions of a Complex Variable, 2 hrs. sess.
Introduction to Theory of Higher Plane Curves; 1 hr. sess.
Associate Professor Gilson.
*Text-books:*—Whittaker and Watson, Modern Analysis; Appell and Lacour, Fonctions Elliptiques (Gauthier-Villars).

11. **Modern Higher Algebra.**
(Properties of polynomials, determinants, matrices, invariants).
3 hrs. sess.....Dr. Williams.

### Honour Course in Mathematics and Physics.

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.
Second Year:—Mathematics 2, 3, 4; Physics 3, 4. (Chemistry and English recommended as other subjects to be chosen.)
Third Year:—Mathematics 5, 6, Physics 5, 6.
Fourth Year:—Mathematics 9, 10; Physics 7, 8.

### Graduate Courses in Mathematics

See page 442.

## DEPARTMENT OF MUSIC.

PROFESSOR:—H. C. PERRIN.

Prerequisites:

(a) Evidence of having passed at least the Intermediate Grade of the McGill Local Examinations in Pianoforte or Organ, or, in the case of a vocalist or violinist, evidence of sufficient ability to play pianoforte accompaniments of moderate difficulty. In every case there will be an additional preliminary ear test and also a sight reading test at the keyboard.

(b) Evidence of having passed the Junior Grade of the McGill Local Examinations in Theoretical Music.

1. (a) Musical dictation and ear training, rhythm and sound studied separately and together (stimulation of musical perception); acquaintance with the compass and use of orchestral instruments.
1 hr.

(b) History of Music from 1650 to 1850, combined with analytical study of works by composers from Corelli and Scarlatti to Beethoven, embracing the suite, lied, rondo, sonata, overture, quartet, fugue, concerto.
2 hrs.

*Text-books:*—Scientific Basis of Music, Stone (No. 11, Novello's Music Primers); Musical Dictation, Parts I and II, Ritter (Nos. 29 and 30, Novello's Primers); Harmony and Ear Training, W. A. White (Silver, Burdett & Co.); Form in Music, Macpherson (Williams); History of Music, Baltzell (Theodore Presser & Co., Philadelphia); Studies in Phrasing and Form, Macpherson (Williams).

*For Collateral Reading:*—Studies of the Great Composers, Parry (Routledge); Beethoven and His Forerunners, D. G. Mason (Macmillan); Listener's Guide to Music, P. A. Scholes (Oxford University Press); How to Appreciate Music, Kobb (Sisley's Ltd.).

2. (a) Analytical Harmony in continuation of the previous year.
1 hr.

(b) History during the first part of the session, the early period, i.e., before 1650, and during the second part of the session, the period from the beginning of the 19th century to the present day.
1 hr.

(c) Study of composition (in continuation of (b) in previous year); comparison of styles, discussion of symphony, symphonic poem, dramatic music; discussion of principles of art and their application to music, especially as regards such points as unity, variety, contrast, proportion, symmetry and progress; the literature of music and literature on the subject of music.

*Text-books:*—Musical Dictation, Part II, Ritter (No. 30, Novello's Primers); Harmony and Ear Training, W. A. White (Silver, Burdett & Co.); Art of Listening to and Appreciation of Good Music, Dickinson (Scribner); Form in Music, Macpherson (Williams); History of Music, Baltzell (Theo. Presser & Co., Philadelphia); History of Music, Stanford-Forsyth (Macmillan).

*For Collateral Reading:*—Genesis of Art, Raymond; Philosophy of the Beautiful, Knight; Various Articles in Grove's Dictionary; Evolution of Harmony, Kitson (Clarendon Press); Sonata Form, No. 54, Novello's Primers; Art of Music, Parry; Naumann's History of Music; Threshold of Music, Wallace; From Greig to Brahms, D. G. Mason (Macmillan); The Romantic Composers, D. G. Mason (Macmillan); Phases of Modern Music, L. Gilman (J. Lane).

## DEPARTMENT OF ORIENTAL (SEMITIC) LANGUAGES.

PROFESSORS:— C. A. BRODIE BROCKWELL. A. R. GORDON.

ASSISTANT PROFESSOR:—G. ABBOTT-SMITH.

LECTURER:—W. C. GRAHAM.

1. **Hebrew Grammar, Composition, and Selected Biblical Texts.**
   3 hrs.; Mon., Wed., Fri., at 12.....Professor Brockwell.

2. **Hebrew (Selected Biblical Texts).**
   2 hrs.; Tu., Th.....Mr. Graham.
   Prerequisite:—1.

3. **Literature of the Jewish Hellenists; (Greek) Texts.**
   3 hrs.; Mon., Wed., Fri., at 2..Assistant Professor Abbott-Smith.
   Prerequisite:—Greek 1.

4. **Grammar and Syntax of Jewish Hellenistic Texts.**
   1 hr.; Tu., at 12.....Assistant Professor Abbott-Smith.
   Prerequisite:—Greek 2.

5. **The Critical Value of Hellenistic Translation Texts.**
1 hr.; Wed., at 2.....Assistant Professor Abbott-Smith.
Prerequisite:—Greek 2.

6. **Hebrew Texts corresponding to Hellenistic Texts of 3.**
1 hr.; Mon., at 3.....Professor Gordon.
Prerequisite:—1.

7. **Biblical Texts:** An exegetical course.
3 hrs.; Mon., Wed., Fri.....Professor Gordon.
Prerequisite:—I and 2, or 1 and an equivalent of 2.
(Omitted in 1924-25.)

8. **Hebrew Texts: Biblical and post-Biblical.**
3 hrs.; Mon., Wed., Fri., at 9..Professors Brockwell and Gordon.
Prerequisite:—1.

9. **Arabic, and either Aramaic or Syriac, or Phoenician, or Ethiopic, or Transliterated Assyrian Texts.**
3 hrs.; Mon., Wed., Fri., at 10.....
Professor Brockwell and Mr. Graham.

10. **Hebrew and Semitic Social Customs, Codes, and Institutions.**
3 hrs.; Mon., Wed., Fri., at 11.....Professor Brockwell.

11. **Hebrew History to the Age of the Mishnah.**
1 hr.; Fri., at 3.....Professor Gordon.

12. **Semitic Epigraphy, Including the History of the Alphabet.**
1 hr.; Tu., at 12.....Professor Brockwell.

13. **Hebrew Grammar, Syntax and Composition.**
1 hr.; Th., at 12.....Professor Brockwell.

14. **Semitic Comparative Philology.**
1 hr.; Tu., at 11.....Professor Brockwell.

### Honour Course.

Prerequisite:—Hebrew 1.
Second Year:—Consult the Head of the Department.
Third Year:—8, 9, 10, 11 (*or* 5), 12, 13.
Fourth Year:—8, 9, 10, 5 (*or* 6, *or* 7, *or* 11), 12, 14.

### Courses for the M.A. and Ph.D. Degrees.

See page 433.

## DEPARTMENT OF PHILOSOPHY.

PROFESSORS:— { W. CALDWELL. / IRA A. MACKAY.

1. **Logic and Introduction to Philosophy.**
   3 hrs.; Tu., Th., Sat., at 10.....Professor Mackay.

2. **Moral Philosophy.**
   3 hrs.; Mon., Wed., Fri., at 12.....Professor Caldwell.

3. **Greek Philosophy.**
   3 hrs.....Professor Caldwell.

4. **History of Modern Philosophy.**
   3 hrs.; Mon., Wed., Fri., at 4....Professors Caldwell and Mackay.

### For Undergraduates and Graduates.

5. **Advanced Moral Philosophy.**
   3 hrs.....Professor Caldwell.

6. **Theory of Knowledge and Metaphysics.**
   3 hrs.....Professor Mackay.

7. **Main Currents of Recent Philosophy.**
   3 hrs.....Professors Caldwell and Mackay.

8. **The Critical Philosophy of Kant.**
   Lectures, Readings and Papers.
   3 hrs.....Professor Caldwell or Professor Mackay.

### HONOUR COURSE.

Second Year:—Course I and Psychology 1.

Third Year:—Any four full courses from 2 to 8, of which Course 2 must be one. Another course in Psychology may also be prescribed either in this year or the next.

Fourth Year:—Four full courses from 2 to 8 other than those selected in the Third Year. In addition, a full course in any of the following subjects:—Education, History, Psychology, Economics, English Literature, Physics, Physiology, Zoology.

The Philosophy requirements for honours in Philosophy and English, Philosophy and German, and Philosophy and Psychology are six hours selected from 2 to 8 in each of the Third and Fourth Years.

### GRADUATE COURSE FOR M.A. DEGREE.

See page 440.

# DEPARTMENT OF PHYSICAL EDUCATION.

## FOR MEN.

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.
UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.
ATHLETIC MANAGER:—MAJOR D. S. FORBES.
TRACK COACH AND ASSISTANT PHYSICAL DIRECTOR:—F. M. VAN WAGNER.
RUGBY AND HOCKEY COACH:—F. J. SHAUGHNESSY.
ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

In order to promote as far as possible the physical welfare of the student body, every student, coming to the University for the first time, will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of the Second Year, as well as those of all years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration. As a result of this examination each student will be placed in one or other of the following categories.

(*a*) Fit for all forms of physical exercise.
(*b*) Fit for a limited number of forms.
(*c*) Fit for gymnasium work only.
(*d*) Fit for remedial gymnastics or temporarily unfit.
(*e*) Unfit for any form of physical exercise.

At the same time he will be asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless debarred for medical reasons, under which circumstances he will be given a further choice among other recognized but less strenuous forms of exercise or will do gymnasium work as the case may require.

Any student participating in competitive athletics may be excused from other forms of exercise during the session of training, providing that this is performed to the satisfaction of the Director.

Physical education is compulsory for all students of the first two years. Two periods per week will be devoted to it.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session

the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be deal with by the respective Faculties.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of his Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session, the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students, will be distributed at the opening of the session.

## DEPARTMENT OF PHYSICS.

DIRECTOR:—A. S. EVE.

PROFESSORS:—H. T. BARNES. L. V. KING.

ASSOCIATE PROFESSORS:—A. N. SHAW. A. H. S. GILLSON.

ASSISTANT PROFESSORS:—H. E. REILLEY. D. A. KEYS. E. S. BIELER. J. S. FOSTER.

DEMONSTRATORS:—
R. J. CLARK (on leave).
W. C. QUAYLE (on leave).
M. CROWE.
N. CAM.
A. V. DOUGLAS.
B. PRIESTMAN.
M. HOME.
F. G. ADNEY.
C. GLIDDON.

INSTRUCTOR IN LABORATORY TECHNIQUE:—MR. H. T. PYE.

1. **General Course.**
(Applied Science 44, Lab. 45.)
3 hrs., Wed. and Fri., at 2; lab., Mon., 2-4....
Assistant Professor Reilley.

*Text-Books:*—Kimball's College Physics (Holt); Laboratory Manuscripts (Renouf Publishing Co.).

1M. **Physics for Medical and Dental Students.**
2 hrs., Tu., Th., at 3; 2 hrs. lab., Tu. 4-6;
Assistant Professor Reilley.

*Text-Books:*—Duff's Text-book of Physics (Blakiston); Laboratory Manuscripts (Renouf Publishing Co.). *Reference Books:*—Daniell's Text-book of Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

2. **Heat, Sound and Light.** (Applied Science 311, Lab. 312.)
3 hrs., Tu., Th., Sat., at 11; 2 hrs. lab., Mon., Wed., or Fri., 11-1..
Associate Professor Shaw.

*Text-Books:*—Duncan and Starling's Heat, Light and Sound (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).

3A. **Electricity and Magnetism.** (Applied Science 315, Lab. 316.)
2 hrs., Mon., Fri., at 11; 2 hrs. lab., Tu. or Th., 2-4.....
Professor Eve.

*Text-Books:*—Duncan and Starling's Electricity and Magnetism (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).

3B. **Statics and Hydrostatics.**
1 hr., Wed. at 11.....Professor Eve.
*Text-Book:*—Loney's Statics and Dynamics (C.U.P.).

4. **Dynamics.**
2 hrs., 1st term; 1 hr., 2nd term. (A half course combined with Mathematics 4 to form a three hour unit), Tu., Th., Sat., at 9.
Professor Eve.

*Text-Book:*—Loney's Statics and Dynamics (C.U.P.).

**5A. Properties of Matter.**

1 hr., Sat., at 10 (3 hrs. lab).....Miss A. V. Douglas
*Text-Book:*—Poynting and Thomson's Properties of Matter (Griffin).

**5B. Statics, Dynamics of a Particle and Rigid Dynamics.**
2 hrs., Tu., Th., at 10.....Assistant Professor Bieler
*Text-Books:*—Lamb's Statics and Lamb's Dynamics (C.U.P.).

**6A. Electrical Measurements.** (Applied Science 320, Lab. 321.)
2 hrs., Wed., Fri., at 9; 4 hrs. lab., Wed., 2-6.....
Assistant Professor Bieler
*Text-Book:*—Terry's Advanced Laboratory Practice in Electricity and Magnetism (McGraw Hill).

**6B. Light.** (Replaced by 8B in alternate sessions.*)
1 hr., Mon., at 9 (lab. Monday 2-5)....Assistant Professor Keys.
*Text-Books:*—Edser's Light (Macmillan); Wood's Physical Optics (Macmillan).

**7A. Electromagnetic Theory.**
1 hr., Th., at 11.....Assistant Professor Keys
*Text-Book:*—Sir J. Thomson's Elements of Electricity and Magnetism (C.U.P.).

**7B. Mathematical Physics.**
2 hrs., Tu., Sat., at 11.....Assistant Professor Foster.
*Text-Book:*—Houston's Introduction to Mathematical Physics (Longmans).

**8A. Molecular Physics.**
2 hrs., Wed., Fri., at 9.....Associate Professor Shaw.
*Text-Book:*—Crowther's Ions, Electrons and Ionizing Radiation (E. Arnold).

**8B. Theory of Heat.** (Replaced by 6B in alternate sessions.*)
1 hr., Mon., at 9 (lab. Monday 2-5).....Professor Barnes.
*Text-Book:*—Preston's Theory of Heat (Macmillan).

**9. Radioactivity.**
2 hrs., 2nd term (3 hrs. lab.).....Assistant Professor Bieler.
*Text-Book:*—Rutherford's Radioactive Transformations (C.U.P.).

**10. Vector Analysis.**
2 hrs., 1st term.....Professor Eve.
*Text-Book:*—Coffin's Vector Analysis (Wiley).

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* Courses 6B and 8B will be given in alternate sessions as follows:—6B in '24-'25, '26-'27, etc., and 8B in '25-'26; '27-'28, etc.

11. **Advanced Statics, Dynamics, Hydrodynamics and Sound.**
2 hrs.....Professor King.
*Text-Books:*—Lamb's Higher Mechanics (C.U.P.); Basset's Hydro-dynamics and Sound (Deighton Bell).

12. **Kinetic Theory of Matter.**
2 hrs.....Associate Professor Shaw.
*Text-Book:*—Jeans' Dynamical Theory of Gases (C.U.P.).

13. **(a) Quantum Theory.**
1 hr., 1st term.....Professor Eve.
*Text-Book*:—Sommerfeld's Atonic Structure" (Methuen).
**(b) Relativity.**
1 hr., 2nd term.....Associate Professor Gillson.

14. **Advanced Electricity and Magnetism.**
2 hrs.....Assistant Professor Keys.
*Text-Book:*—Jean's Electricity and Magnetism (C.U.P.).

15. **Laboratory Practice and Physical Manipulation.**
A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction of simple apparatus. This course is designed as an aid and introduction to original research.
1 hr. (also 2 hrs. lab).
Assistant Professor Keys and Mr. H. T. Pye.

16. **Thermodynamics.**
1 hr.....Professor Barnes.
(Alternate sessions, '24-'25, '26-'27, etc.)

17. **Electron Theory.**
1 hr.....Professor King.
*Text-Books:*—Richardson's Electron Theory of Matter (C.U.P.); Lorentz Theory of Electrons (Teubner).

### Honour Course in Mathematics and Physics.

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.
Second Year:—Mathematics 2, 3, 4; Physics 3, 4; (Chemistry and English recommended as other subjects to be chosen).
Third Year:—Mathematics 5, 6; Physics 5, 6.
Fourth Year:—Mathematics 9, 10; Physics 7, 8.

### Graduate Course in Physics.

See page 443.

## DEPARTMENT OF PSYCHOLOGY.

PROFESSOR AND DIRECTOR OF THE PSYCHOLOGICAL LABORATORY:—
WILLIAM D. TAIT.
ASSOCIATE PROFESSOR:—C. E. KELLOGG.

FOR UNDERGRADUATES.

1. **Introduction to Psychology.**
Lectures, class experiments and exercises.
3 hrs.; Mon., Wed., Fri., at 10.....Professor Tait.
2. **Experimental Human Psychology.**
Introductory Laboratory Course; experiments and discussions.
3 hrs.....Associate Professor Kellogg.
3. **Social Psychology.**
Lectures, prescribed readings and reports.
3 hrs.; Tu., Th., Sat., at 10.....Professor Tait.
4. **Educational Psychology.**
Lectures, prescribed readings and reports.
3 hrs.; Mon., Wed., Fri., at 9.....Associate Professor Kellogg.
5. **Advanced Psychology.**
Lectures, prescribed readings and a thesis.
3 hrs.; Tu., Th., Sat., at 9.....Associate Professor Kellogg.
6. **Introduction to Aesthetics.**
3 hrs., one term.....Associate Professor Kellogg.
7. **Business and Industrial Psychology.**
3 hrs. per week. (Half course.) Readings and reports.
Professor Tait.
8. **Psychology in School of Physical Education.**
1 hr. per week.....Associate Professor Kellogg.
9. **Seminar in Psychology..** (Course 2 in Graduate Announcement.
2 hrs. per week.....Professor Tait.

HONOUR COURSE.

Second Year:—1 and 2.

Third Year:—Any four full courses 2-8.

Fourth Year:—Any four full courses 2-9 other than those selected in the Third Year. Students taking honours in Psychology must also take History of Philosophy in the Third or Fourth Year in place of one of courses 2-8. In consultation with the department, other courses in the department of Philosophy may be taken instead of certain couress in Psychology. Students are advised to take Greek Philosophy.

The requirements for honours in Psychology and other subjects are two courses in Psychology and two in the other subject selected.

GRADUATE COURSES.

See page 440.

## DEPARTMENT OF ROMANCE LANGUAGES.

PROFESSOR:—R. DU ROURE.

ASSISTANT PROFESSORS:— { P. VILLARD. / MRS. L. TOUREN FURNESS.

LECTURERS:— { A. ROCHE. / MLLE B. FRAMERY.

### FRENCH.

Owing to the position which this University occupies in the midst of a very large French speaking population, the Department enjoys the opportunities afforded by French church services, French newspapers, French theatres, French literary clubs and public lecture courses in the French language. It maintains in consequence a particularly high standard in the study of French. Every lecture, even in the First Year, is given in French, and the complete course of studies is so combined as to give the students not only a theoretical knowledge of French grammar and literature, but a practical ability to talk, read and write French correctly and fluently.

Both oral and written examinations are held on each year's work. The oral examination (in both ordinary and honour courses) counts for 50%.

1. **French Language.** First Year.

3 hrs.—Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11.

Professor du Roure, Assistant Professors Villard, Furness, M. Roche and Mlle. Framery.

*Texts:*—Bouvet, French Syntax and Composition (Heath); Lavisse, Histoire de France, Cours moyen; Labiche, Le Voyage de M. Perrichon (Holt); Manley, Eight French Stories (Allyn and Bacon); A. Dumas, Les Trois Mousquetaires (Heath). (a) Ordinary Course.—Malot, Sans Famille (Heath). (b) Advanced Course.—Daudet, Lettres de mon moulin (Oxford); Racine, Andromaque (Ginn); Mérimée, Contes et Nouvelles (Oxford); Molière, Le Bourgeois Gentilhomme (Holt).

2. **French Language.** Second Year.

3 hrs., Tu., Th., Sat., at 9.

Assistant Professors Villard, Furness, M. Roche, Mlle. Framery.

*Texts:*—Corneille, Le Cid (Holt); Racine, Britannicus (Holt); Molière, Les précieuses ridicules (Heath); E. Augier, Le Gendre de M. Poirier (Heath); La Fontaine, Fables choisies; Mansion, Littérature française; Louis Hemon, Maria Chapdelaine (Grasset); Cameron, French Composition (Holt). Private readings: Pailleron, Le Monde où l'on s'ennuie; Chateaubriand, Atala.

**3. French Language.** Second Year, (Honour Course.)
3 hrs., Tu., Th., Sat., at 11.....

*Texts:*—Seventeenth Century French Readings (Holt); Molière, Les Femmes savantes (Macmillan); Voltaire, Zäire (Heath); Musset, Trois Comédies (Heath); Hugo, Ruy Blas (Holt); P. Hervien, La Course du Flambeau (Heath); Doumic, Histoire de la littérature française.

Private Readings:—Pailleron, Le Monde où l'on s'ennuie (Heath); Hugo, Notre-Dame de Paris (Ginn).

**4. French Literature:—General Course to the end of the Seventeenth Century.** Third and Fourth Years.
(Given in 1924-25.).
3 hrs., Mon., Wed., Fri., at 10.....
Professor du Roure and Assistant Professor Furness.

*Texts:*—Oxford Book of French Verse; Darmsteter, Morceaux Choisis du XVIème siecle (Delagrave); Montaigne, Selections (Heath); Rabelais, Selections (Macmillan); French Prose of the XVIIth Century (Heath); Corneille, Polyeucte; Racine, Phèdre; Molière, Le Misanthrope; Mme. de la Fayette, La Princesse de Clèves; Doumic, Histoire de la littérature française.

Prose Composition:—(a) Ordinary Course.—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall & Co., London); (b) Honour Course.—Nicholson and Brennan, Passages for Translation into French and German (Oxford University Press); Stephen Leacock, My Discovery of England.

**5. French Literature:—General Course, Eighteenth and Nineteenth Centuries.** Third and Fourth Years.
(Given in 1926-1927.)
3 hrs., Mon., Wed., Fri., at 10.
Professor du Roure and Assistant Professor Furness.

*Texts*:—Lesage, Gil Blas (Heath); Marivaux, Le Jeu de l'amour et du hasard (Macmillan); Diderot, Selections (Heath); J. J. Rousseau, Selections; Voltaire, Prose Selections (Heath); Beaumarchais, Le Barbier de Séville (Ginn); Chateaubriand, René (Nelson); Flaubert, Trois Contes (Nelson); Hugo, Hernani; Balzac, Le Père Goriot; Sainte Beuve, Selections (Cambridge University Press); French Lyrics of the Nineteenth Century (Ginn); Doumic, Histoire de la littérature française.

Prose Composition:—(a) Ordinary Course.—Spiers, Graduated Course of Translation into French prose (Simpkin, Marshall & Co., London); (b) Honour Course.—Nicholson and Brennan, Passages for Translation into French and German (Oxford University Press).

N.B.—In order to be admitted to courses 4 and 5 a student must know French well enough to take lectures delivered in French and express himself in French with some fluency and correctness.

6. **Mediæval French Literature and Philology.** Third and Fourth Years. (Honour Course.)
(Given in 1926-1927.)
1 hr., Sat., at 12..... ———

*Texts:*—Darmsteter, Cours de Grammaire Historique, Parts I and II, and Bartsch, Chrestomathie de l'Ancien Français.

7. **History of the French Novel.**
Third and Fourth Years (Honour Course).
(Given in 1925-26.)
3 hrs., Tu., Th., Sat., at 10.....Professor du Roure.

8. **History of the French Theatre of the XIXth Century.**
Third and Fourth Years (Honour Course).
(Given in 1925-1926.)
2 hrs., Tu., Th., at 12.....Professor du Roure.

9. **Evolution of the French Lyric.**
Third and Fourth Years (Honour Course).
(Given in 1924-25.)
3 hrs., Mon., Wed., Fri., at 12.....Professor du Roure.

10. **History of the French Theatre of the XVIIth and XVIIIth Centuries.** Third and Fourth Years. (Honour Course.)
(Given in 1924-25.)
3 hrs., Tu., Th., Sat., at 12..... ———

11. **French Commercial Course..** Second Year.
3 hrs., Mon., Wed., Fri., at 10.....Assistant Professor Villard.

*Texts:*—Mansion, Histoire de la littérature française; Racine, Britannicus (Holt); Carroué, Manuel de Correspondance Commerciale; Daudet, Les Lettres de mon moulin (Oxford); Pailleron, Le Monde où l'on s'ennuie.

Home Reading:—G. Sand, La Mare au diable; Vigny, Le Cachet rouge; Mérimée, Colomba.

12. **French Commercial Course.** Third Year.
3 hrs., Tu., Th., Sat., at 10.....Assistant Professor Villard.

*Texts:*—Janau, Commercial French Correspondence; Clerget, Manuel d'economie commerciale; Doumic, Histoire de la littérature francaçaise au 19ème siècle; V. Hugo, Ruy Blas (Heath); Flaubert, Trois Contes (Nelson); French Lyrics of the Nineteenth Century (Ginn).

Home Reading:—Chateaubriand, Atala; E. Auger, Le Genre de M. Poirier; Balzac, Eugenie Grandet.

13. **French Science Readings.** First Year, B.Sc. Course.
3 hrs., Tu., Th., Sat., at 9.....M. Roche.
*Text:*—Bowen, A First Scientific French Reader (Heath).

HONOUR COURSE.

Prerequisite:—1.
Second Year:—2 and 3.
Third and Fourth Years:—4, 9, 10, and a full course in another subject, approved by the Head of the Department.

FRENCH REQUIREMENTS FOR THE HONOUR COURSE IN FRENCH AND OTHER SUBJECTS.

Second Year:—2 and 3.
Third and Fourth Years:—4 and 9 or 10.

M.A. COURSE.

See page 438.

## DEPARTMENT OF SOCIAL SCIENCE.

ASSISTANT PROFESSOR AND DIRECTOR OF THE SCHOOL FOR SOCIAL WORKERS:—CARL ADDINGTON DAWSON.

Instructor ————————

The Department of Social Science is entirely separate from the School for Social Workers. The latter has its own Committee of Management.

1. **Introduction to the Study of Society.** Second Year.
3 hrs.; Tu., Th., Sat. at 10.
Human nature, society and group; isolation and contact; the nature and effects of communication; social forces; competition and the location of the individual in the community; war, racial and cultural conflicts; social control; collective behaviour; social progress.
*Text-book:*—Park and Burgess, Introduction to the Science of Sociology.

2. **The Community.** Second, Third and Fourth Years.
A study of Rural and Urban Life.
Tu., Th., Sat., at 9.
Methods of studying the community; social anatomy; a comparative study of communities and their fundamental nature; analysis of

the underlying forces of the social process which make for natural groups and institutions (to meet needs, industrial, leisure time, religious, educational, governmental, social agencies); disorganization and reorganization in modern communities; community culture.

3. **Immigration.** Third and Fourth Years.
Mon., Wed., Fri., at 10, 1st term.
Social, industrial and political phases of the immigration problem; types of migration and immigration; present sources for Canadian immigration; immigration laws and policies; assimilation and Canadianization.

4. **Social Pathology.** Third and Fourth Years.
Mon., Wed., Fri., at 10, 2nd term.
Dependency (including poverty); defectiveness; degeneracy; social variation; social unrest and disorder; pathology of play and amusements; crime, delinquency, the gang; family disorganization—desertion; tendencies in the direction of social reorganization. Supplemented by field trips, individual and group studies.

5. **Social Origins.** Third and Fourth Years.
Mon., Wed., Fri., at 11, 1st term.
Study of early cultural development and social organization; comparative ethnological and anthropological materials; primitive mind; social attitudes; forms of control, etc.

6. **Social Movements.—Collective behaviour.**
Mon., Wed., Fri., at 11, 2nd term.
Natural history of labour, feminist, prohibition, country-life, farmer's, nationalistic, peace, religious, reform and other movements; classification of typical movements and the underlying laws of their development; function of social movements in respect to social change.

7. **The Family.**
Mon., Wed., Fri., at 9, 1st term.
The study of the family as the fundamental social institution, its early forms, attitudes, and natural history, sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational and legal aspects of family life. Present day disorganization and reorganization of family life.

8. **Social Progress.** Fourth Year and Graduate Students.
Mon., Wed., Fri., at 9, 2nd term.

9. **Social Research: Canadian Problems.** Fourth Year and Graduate Students.
Hours to be arranged.

10. **Delinquency and Crime and their Social Treatment.**
(To be given in 1925-26).

11. **Social Control.**
(To be given in 1925-26).

Elementary forms of social control; evolution of various types of control in society; modern problems of social control.

HONOUR COURSE.

Students may take Social Science as a half honour course. The other half of the honour course can be taken in Economics or Political Science, in Philosophy, in Psychology, and in English. The selection of these courses will be under the supervision of the Heads of the Departments.

## DEPARTMENT OF ZOOLOGY.

PROFESSOR:—ARTHUR WILLEY.
ASSISTANT PROFESSOR:—J. STAFFORD.
LECTURER:—JEAN T. HENDERSON.

**Biology II.**

As in First Year Medicine.

1. **Elementary Zoology.**
2 hrs., 1st term; Mon., Wed., at 2.....Professor Willey.
2 hrs. lab., Fri., at 2.

2. **Zoology of Invertebrata.***
2 hrs., Wed., Fri., at 4.....Assistant Professor Stafford.
4 hrs. lab., Wed., Fri., at 2.

3. **Colloquium.**
1 hr., Fri., at 5.....

4. **Zoology of Vertebrata.**
2 hrs., Mon., Fri., at 10.....Professor Willey.
3 hrs. lab., Th., at 2.

5. **Comparative Embryology.**
2 hrs., 2nd term; Mon., Wed., at 11.....Professor Willey.
2 hrs. lab., Wed., at 2.

*This is a prerequisite for students who may hereafter wish to undertake zoological work at the Marine Laboratories under the Biological Board of Canada.

6. **General Zoology.**
2 hrs. lecture and 2 hrs. laboratory.

7. **Ethnology.**
1 hr., Tu., at 10.....Professor Willey.

HONOUR COURSE IN BIOLOGY.

Prerequisities:—Botany 2, Chemistry 1, Zoology 1
Second Year:—Botany 3 and 4 (with laboratory work); Zoology 2, with at least Physics 1, or Chemistry 2 or their equivalent.
Third Year:—Botany 5 and 6; Zoology 3 and 6.
Fourth Year:—Botany 7 and 8; Zoology 4 and 5.

# THE ROYAL VICTORIA COLLEGE.

**Founded and Endowed by the late Rt. Hon. Baron Strathcona and Mount Royal.**

## FOUNDATION AND HISTORY.

The College was opened September 4th, 1899.

It is the outgrowth of plans conceived during the early years of his Principalship by the late Sir William Dawson, which resulted in the establishment of the Ladies' Educational Association. Under the auspices of the Association, courses of lectures, delivered chiefly by Professors of McGill University, were offered to women from 1870 until 1884, thus placing within their reach, to some extent at least, the advantages of a Collegiate and University education.

In 1884, during the principalship of the late Sir William Dawson, the late Lord Strathcona, then Mr. Donald A. Smith, gave a sum of $50,000, and, in 1887, a further sum of $70,000, to found the Donalda Endowment for the higher education of women, such education to be conducted in the buildings of McGill College, as a distinct course in the Faculty of Arts, with the understanding that as soon as practicable the classes were to be created into a separate college of McGill University, with a building separate from that of McGill College Under the terms of the Donalda Endowment it was provided that degrees in the Faculty of Arts should be granted to women practically on the same conditions as to men, and that the examinations for such degrees for classing, honours, prizes and medals should be identical with those for men.

As a result of this generous gift and in accordance with the conditions attached, courses of instruction, identical in subject and in standard with those of the Faculty of Arts, were established for women in 1884. These courses were given in the Arts Building, some of the work of the Third and Fourth Years and of the Honour Courses being conducted in joint classes.

The first graduating class of eight women was presented for the degree of Bachelor of Arts in 1888.

The ultimate object of Lord Strathcona had been the provision of a residential college, and this was realized when the Royal Victoria College was opened in 1899, and formally inaugurated by their Majesties the King and Queen (then Duke and Duchess of York) in 1901.

A Warden and Resident Staff were appointed. With these new and great advantages the instruction provided by the original endowment has been maintained as hitherto, except that the separate classes are held mainly in the College building. Women have continued to

prepare for degrees in Arts, including pure science. Through the wisdom of Lord Strathcona, provision was also made for the study of music. Since, however, the establishment of music as a separate department of the University in the Conservatorium of Music, independent instruction in music in the College has ceased, but it still maintains a resident lecturer in this subject, who is also Vice-Director of the Conservatorium. The interest of College students in music is thereby served and provided for. Women students resident in the Royal Victoria College may take degree courses in music at the Conservatorium.

Resident students of Music have the use of pianos in two practising rooms and at certain hours in other parts of the building.

Facilities for lawn tennis and for skating are provided. Subject to regulations, the students have the privilege of using the University grounds.

## THE COLLEGE BUILDING.

The College building, surrounded by garden and tennis courts, was erected at a cost of about $400,000 at the head of Union Avenue, upon land adjacent to the University Campus. Its beautiful and dignified exterior was designed in consistency with a careful and generous internal provision of a comfortable and gracious place of study and dwelling for students and for staff.

The building provides an academic, administrative and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fire-proof, and much thought and artistic care have been given to furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the faculty room, the students' common room, a spacious dining hall, and three lecture rooms. On the first floor are other lecture rooms, the library, reading room, and a handsome assembly hall, which is used for Conservatorium concerts, and other University purposes. This hall is sometimes lent for purposes that are in harmony with the objects of the College. The gallery, which is reserved exclusively for the use of College students on such occasions, affords the latter many opportunities of educational value. The second and third floors and a small part of the first floor are occupied by the rooms of the Resident Staff and students. Each student has a separate study-bedroom. The rooms are completely furnished, and no article of furniture need be brought by the students.

A large gymnasium is provided, fully equipped with modern requirements. In connection with the gymnasium are bath-rooms and dressing-rooms.

## ADMISSION AND INSTRUCTION.

The College, being a college of McGill University, and its students being registered in the Faculty or Arts, they are required to comply with the regulations concerning discipline and instruction, made by the University and Faculty, and, in addition, with such regulations as may be made for the Royal Victoria College.

Undergraduates are required to pass the Matriculation Examination of the University, or an equivalent examination (see page 56) and can proceed to the degrees of B.A. and B.Sc. under the regulations of the Faculty of Arts as stated on pages 136-146. They are required to wear academic dress. Partial students, in order to obtain admission, must pass the Matriculation Examination in the subject or subjects which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the course.

*Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal.* All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination. No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, shall enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the resident students is in charge of two physicians (Dr. W. F. Hamilton and Dr. C. F. Martin), who may be consulted, free of charge, by arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.

Instruction is given by professors and lecturers of the University and lecturers and tutors of the Royal Victoria College, who are also members of the various teaching departments of the Faculty of Arts. Graduate students can proceed to the degree of M.A., M.Sc. and Ph.D.

Lectures are given in the College or in the University buildings, practical instruction in science being given in the University laboratories. Students are assisted in their studies by the resident staff.

Students of the College have the use of the University Library. There is also a College Library comprising works of general literature and the chief stated books required for the University curricula, the Department of Romance Languages being especially well represented. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Peter Redpath Museum, containing large collections in mineralogy, palæontology, zoology, botany, archæology, and ethnology, is open to students of the College.

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Applications for admission should be addressed to the Warden, Royal Victoria College, Montreal.

## EXHIBITIONS AND SCHOLARSHIPS.

For a statement of the exhibitions and scholarships open to women students of the University, see pages 83 to 94.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the city, the Warden and Staff are empowered to make nominations in any of the four college years to not more than three additional exhibitions of the value of $100.00 each.

## TUITION FEES.

Students (graduate, undergraduate or partial, resident and non-resident) pay the same fees as are charged in the Faculty of Arts. For undergraduate students the fee is $100.00 (this includes fees for library, gymnasium and graduation). For further information, see pages 108-110. Every student pays an Athletics or Grounds fee of $3.00, and undergraduate students, the Royal Victoria College Undergraduates Society fee of $2.50. All fees are payable to the Bursar, McGill University, on October 2nd and 3rd.

## BOARD AND RESIDENCE.

Residence in the College is open to graduate students, undergraduates, conditioned undergraduates, and, in exceptional circumstances, to partial students. *Application for residence should be made early as accommodation in the college is limited.* No room is assigned for a shorter period than the University session. Students of the First Year who under regulations of the Faculty of Arts are dropped from the University (see page 138) will be required to withdraw from residence. The charge for board and residence, in addition to the sessional fee for tuition, is $500.00 ($200.00 for room, $300.00 for board). This may be paid in two equal instalments of $250.00 each, in October and February. Room rent includes all expenses of heat and light (not other electrical attachments, for which fees will be charged). These charges cover the University session from the first day of registration (September 29th) to the close of the examination (for members of the graduating class, to the day after Convocation, May 30th).

Students entering earlier or remaining later for purposes of instruction, practice teaching, or examination, and students arriving in September for practice teaching, supplemental or matriculation examinations, are charged an additional fee of $1.50 a day. No additional fee is charged to students returning earlier than September 27th, for scholarship examinations. With the permission of the Warden, students may remain in residence during the Christmas vacation. They will be required to pay a fee of $1.50 a day for board and residence.

The charges for tuition and room rent are not subject to remission or reduction under any circumstances. Rooms cannot be reserved for a shorter period than the University session. In case of prolonged illness and absence from College for a period of six weeks or more, a proportionate reduction is made in the charge for board. Information concerning Bursary and Loan Funds can be obtained from the Warden.

*Notice of withdrawal should be given at the close of the session, or not later than September 1st. Rooms are not reserved for students whose standing at the end of the Session does not entitle them to proceed to the next year* (*see page* 150).

## PHYSICAL EDUCATION.

Every student on entering the College is required to pass a physical examination.

The physical education offered to undergraduate students includes educational, remedial and recreative gymnastics.

The educational gymnastics are based on anatomical and physiological laws; the exercises aim at producing the highest degree of health in each individual, thus contributing to mental as well as to physical efficiency. The course of exercise, which is progressive throughout each session, encourages the harmonious development of the nervous and muscular system, and provides a remedy for incorrect habits of sitting, standing and walking. A remedial gymnastic course is prescribed for undergraduate students who are physically unfit for ordinary class work.

Work in the Physical Education Department, amounting to 140 hours during the four years' course, is required of all undergraduate students. The periods are used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual. Attention is given in the senior years to the subject of health problems. No student is asked to do work unsuited to her physique and students debarred from exercise of any kind are dealt with separately and carefully advised.

The Physical Director for Women arranges all regulations regarding necessary attendance and the substituting of recreative for educational gymnastics.

In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department. Every student is required to wear the costume recommended by the Department.

Recreative gymnastics in the form of basket ball, tennis, ice-hockey, fancy skating and athletic sports, are organized by the Athletic Association, under the supervision of the Department of Physical Education. All students are examined by the Medical Officer, and the Physical Director for Women, and are required to pass satisfactory physical tests before taking part in any of these activities.

Students of Music in residence are also required to attend educational gymnastic classes. Educational and recreative gymnastics are open to all partial students on payment of a fee of $5.00 for a class of two periods a week.

Strathcona Prizes are offered in this Department under the conditions stated under the Department of Physical Education in the University Calendar.

*A course of instruction, theoretical and practical,* is offered to undergraduates of the Fourth Year, who are preparing for the First Class High School Diploma, attendance being required by the Department of Education as follows:—

A course of 54 hours on the principles and practice of physical education. The course will cover elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

Students who satisfactorily complete this course are entitled to certificate "B" of the Strathcona Trust, and their work is included in the requirements for the High School Diploma of the Province of Quebec.

Provision is made by the Department for the care of the health of women undergraduate students during the University session.

A leaflet giving information concerning instruction and concerning the health scheme will be supplied to all students at the opening of the session.

## MUSIC.

Students taking courses in music leading to the degree or diploma are eligible for residence in the College.

Instruction in music is offered at the McGill Conservatorium of Music—Director, Dr. H. C. Perrin; Vice Director, Miss Clara Lichtenstein, Resident Lecturer in the Royal Victoria College. Students may

prepare for the degree examination in music of the University, or for the Diploma of Licentiate in Music.

For information regarding courses in music, see page 389, and the Announcement of the Conservatorium of Music.

## COLLEGE SOCIETIES.

The students maintain the following societies:—The Undergraduates' Society, the Athletic Society, the Delta Sigma Literary and Debating Society, La Société Française, the Women Students' Christian Association.

## EXAMINATION TIME TABLES—Faculty of Arts.

SCHOLARSHIP AND SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1924.

| DATE | Hour. | Supp. to First Year Sessional. | Second Year Scholarships. | Supp. to Second Year Sessional. | Scholarships (Third Year). | Sup. to Third and to Fourth Year Sessional.* |
|---|---|---|---|---|---|---|
| Monday.....15 | 9.00 | English 1. (and Com.) | English Literature (Shakespere, Scott and Tennyson). | English, II Com. Philosophy, 1. | English Literature (Shakespere and Milton). | Mathematics, 5, 6. |
| | 2.00 | English 2, (and Com.) | English Literature Thackeray, Eliot and Macaulay | English, 4. Commercial Law (Neg. Inst.). | English Literature. (Ruskin and Arnold). | English, 7, 12. Accountancy, Q. Maths., 8A. |
| Tuesday.....16 | 9.00 | German, 3. Latin 1. Economics (I Com.) | Latin Books. | Economics (II Com.) | Latin Texts. | Maths. 4 (Inf. Cal.) Philosophy, 14 Comp. Nat. Govt. |
| | 2.00 | Greek, 1 Accountancy (I Com.) | Latin Composition, Sight Translation, and Roman History. | German, 5 | Latin Composition, and Sight, and Roman History. | Economics, 3, 5. Chemistry, 3. Maths. 4 (Anal. Geom.) |
| Wednesday...17 | 9.00 | French. 1, 13. | French Texts. | French, 2, 10 and Com. | French Books. | French, 5. |
| | 2.00 | Econ. Geog. (I Com.) History, 1. | German Texts | Accountancy (II Com.) | French Composition and Sight. | Physics, 3B & 4. Accountancy, P. (III Com.) |
| Thursday.....18 | 9.00 | Maths. 1. (Algebra) and Com. | Geometry and Trigonometry. | Maths. 3 (Algebra.) History 2. | Animal Biology. Analytical Geometry and Trigonometry. | Economics, 6, 12 |
| | 2.00 | Maths. 1. (Geometry) and Com. | German Composition and Sight. | Economics, 2 | German Books. Plant Biology. Logic. | English, 9. Education, 1. Chemistry, 4, |
| Friday.....19 | 9.00 | Maths. 1. (Trigonometry) and Com. | Greek Books, Algebra (Minor), Algebra and Theory of Equations. (Major). | Greek, 2, German, 4, 6. Economics, 1, | Greek Texts. Physics. Psychology. | Maths., 8B. History, 3. Exchange. |
| | 2.00 | Botany, 2. | Greek Composition, Sight Translation, and History. | Geology, 1, 2. Pnilosophy, 2. Maths. (II Com.) | Chemistry, Greek Composition, History and Sight Translation. | Chemistry, 5, 7A. English, 6, 13. Int. Trade. |
| Monday.....22 | 9.00 | German, 1, 2, Spanish. | French Composition and Sight. | Maths. 3 (Conics and Solid Geometry). Com. Law (Corporations) | Infinitesimal Calculus, German Comp. and Sight. | Chemistry, 2. Education, 2. |
| | 2.00 | Zoology, 1. Chemistry, 1. | Physics. | Chemistry, 1, and (Com.) Com. Law (Contracts | History and English Composition. Philosophy. (Berkeley). | Geology, 7 & 8. |

*Periods for other subjects to be arranged at the time of the Examination. Physics, 1, 2 (and Com.), 3A, Tues., Sept. 23, 2 p.m.

## EXAMINATION TIME TABLES.

### Faculty of Arts

First Term Examinations, 1925.

| | First Year | Second, Third and Fourth Years. |
|---|---|---|
| Monday, January 12th, 1925 | | |
| 9-12 A.M. | Chemistry, 1. | Social Science, 3.* |
| 2-5 P.M. | Greek, 1. | English, 7.<br>Geometry, 3.* |
| Tuesday, January 13— | | |
| 9-12 A.M. | Geometry, 1.*<br>Algebra (Com.). | Chemistry, 3 (a).*<br>Economics, 10.*<br>Physics, 8B.<br>History, 2.<br>Philosophy, 2.<br>Social Science, 2. |
| 2-5 P.M. | French, 13.<br>Accountancy. | Physics, 3B and 4.<br>English, 4.<br>Greek, 6. |
| Wednesday, January 14— | | |
| 9-12 A.M. | English, 2 & Com. | Economics, 2.<br>Economics, 4.*<br>Economics (III Com.).*<br>Mathematics, 4 (a).* |
| 2-5 P.M. | Latin, 1.<br>Spanish. | Chemistry, 12.<br>German, 4.<br>Psychology, 6.* |
| Thursday, January 15— | | |
| 9-12 A.M. | German, 1, 2, 3. | Chemistry, 4.*<br>English, 12.*<br>Geology, 4.*<br>Accountancy (II and P. |
| 2-5 P.M. | History, 1. | Geology, 1.<br>Economics, 8.*<br>Greek, 4.<br>Latin, 2. |
| Friday, January 16— | | |
| 9-12 A.M. | French, 1. | Economics, 14.*<br>Chemistry, 2.<br>Psychology, 1.<br>Accountancy, Q. |
| 2-5 P.M. | Physics, 1.<br>Zoology, 1.* | |
| Saturday, January 17— | | |
| 9-12 A.M. | Geometry (Com.).*<br>Trigonometry, 1. | Geometry, 2.*<br>Education, 1.*<br>Economics, 1.<br>History, 8. |

Courses marked * are final.

## EXAMINATION TIME TABLES.

### Faculty of Arts.

Sessional Examinations, 1925. Subject to Revision.

| Date | Forenoon | Afternoon |
|---|---|---|
| Monday, May 4th..... | Botany, 6<br>Latin, 11, 12<br>Geology, 1, 2<br>German, 8<br>History, 2<br>Mathematics, 6<br>French, 1 and Adv.<br>Hebrew, 7<br>Psychology, 4<br>Physics, 8A<br>Accountancy (II Com.)<br>Insurance (III Com.) | Chemistry, 16<br>English, 5<br>Geology, 1<br>Hebrew, 7<br>Spanish (III Com.) |
| Tuesday, May 5th..... | Botany, 3<br>History, 7, 8<br>French, 2, 13<br>German, 1.<br>Hebrew, 2<br>Geology, 3<br>Accountancy, P. | Latin, 3<br>Geology, 9<br>Mathematics, 8<br>German, 1<br>Hebrew, 2<br>Psychology, 5.<br>Social Science, 2. |
| Wednesday, May 6th..... | Chemistry, 5<br>Latin, 1<br>English, 6<br>History, 9<br>Mathematics, 2, 7<br>French, 5, 10<br>Hebrew, 8<br>Psychology, 1<br>Zoology, 4 | Economics, 5<br>Latin, 1<br>French, 5<br>Hebrew, 8<br>Adv. Econ. (III Com.)<br>Social Science, 4 |
| Thursday, May 7th..... | Chemistry, 13<br>Greek, 1, 5<br>English, 7<br>French, 12<br>German, 2, 3<br>Hebrew, 8<br>Philosophy, 1<br>Physics, 5B<br>Psychology, 3<br>Social Science, 4<br>Mathematics (II Com.) | French, 12<br>Geology, 7 and 8<br>German, 2, 3<br>History, 5<br>Physics, 5A<br>Spanish (1 Com.) |
| Friday, May 8th..... | Economics, 1<br>English, 9<br>Chemistry, 15<br>History, 4<br>Mathematics, 1 (a) and ICom.<br>German, 5<br>Hebrew, 9<br>Physics, 6A<br>Zoology, 5, Social Science, 6<br>Accountancy, Q | History, 4<br>Mathematics, 1 (c), and (I Com.)<br>German, 5<br>Physics, 3B and 4<br>Hebrew, 9<br>Economics (II Com.) |
| Saturday, May 9th..... | Chemistry, 6<br>Greek, 4, 12<br>Economics, 9<br>English, 10<br>History, 1<br>Mathematics, 5<br>French, 3<br>Physics, 2<br>Spanish (II Com.)<br>Statistics | Greek, 2, 12<br>Physics, 3A, 8B. |

SESSIONAL EXAMINATIONS, 1925.

| DATE | FORENOON | AFTERNOON |
|---|---|---|
| Monday, May 11th..... | Chemistry, 1 (Dr. Ruttan)<br>Economics, 2<br>English, 15<br>History, 6<br>Mathematics, 9<br>Hebrew, 1, 13<br>French, 8<br>German, 7<br>Philosophy, 2<br>Accountancy (I Com.) | Botany, 4<br>Economics, 2, 15<br>German, 7<br>Social Science, 1<br>Economics (III Com.)<br>English (II Com.) |
| Tuesday, May 12th..... | Chemistry, 2, 9<br>Latin, 2<br>Economics, 11<br>English, 2<br>History, 3<br>Mathematics, 3 | English, 1<br>Mathematics, 4 (Anal. Geom.)<br>Hebrew, 11 |
| Wednesday, May 13th..... | Chemistry, 1 (Prof. Evans), 3 (b)<br>Economics, 3<br>English, 13<br>Hebrew, 3, 5 | Botany, 2, 7<br>Economics. 3<br>Hebrew, 3<br>Chemistry, 7<br>Physics, 1 |
| Thursday, May 14th..... | Englisn, 4<br>Hebrew, 6<br>Physics, 5B, 9 | French, 6<br>Mathematics, 3 and 6<br>Greek, 2<br>Philosophy, 4 |
| Friday, May 15th..... | Chemistry, 8<br>English, 9<br>Mathematics, 9<br>Physics, 12<br>Zoology, 2 | |
| Saturday, May 16th..... | Education, 2<br>German, 4<br>Mathematics, 9 | |

# DEPARTMENT OF COMMERCE.

## COURSE FOR THE DEGREE OF BACHELOR OF COMMERCE.

The course extends over four years, and students who successfully complete it will be granted the Degree of Bachelor of Commerce (B.Com.).

Students entering the Third Year in the session 1924-25 will follow the Course laid down for this Year under the Three-Year curriculum.

The curriculum is as follows:—

### FIRST YEAR.

(a) Obligatory Subjects.

1. **English.**
2. **Mathematics.**
3. **French,** or **Spanish,** or **German.**
4. **Accountancy.**

(b) Optional Subjects (two to be chosen)

5. **Latin,** or **Greek.**
6. **German,** or **Spanish,** or **French.**
7. Physics, or **Biology,** or **Chemistry.**
8. **General History.**

N.B.—(a) High School Physics is a prerequisite to Chemistry in No. 7 above.

(b) Students intending to take up Actuarial Science in the Fourth Year must obtain 60 per cent. in the Mathematics of this Year.

### SECOND YEAR.

(a) Obligatory Subjects.

1. **French,** or **Spanish,** or **German** (continued).
2. **Accountancy.**

(b) Optional Subjects—(Three to be chosen)

3. **Economics** No. 1.
4. **English.**
5. **Mathematics.**
6. **Mathematics** (Course 3 in Arts—Elementary Course in Analytical Geometry and Calculus).
7. **Psychology.**
8. **German,** or **Spanish,** or **French** (continued).
9. **Chemistry.**

N.B.—Students proceeding to Actuarial Science in the Fourth Year must obtain at least 60 per cent. in Nos. 5 and 6.

## THIRD YEAR.

*(Three-Year Curriculum.)*

| Five of the following: | Prerequisites. |
|---|---|
| Accountancy P. (including Business Organization and Scientific Management) | Second Year Accountancy. |
| Accountancy Q. (advanced)* | |
| French or Spanish† | |
| Spanish or French† | |
| Economics | Second Year Economics. |
| Economics (advanced) | |
| Actuarial Mathematics | Mathematics 2 and 3 of the Arts Course, with a percentage of at least 60%. |
| Statistics, Investigation Practice, Insurance | Second Year Mathematics |

A number of visits will be arranged to important manufacturing concerns in and around Montreal.

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*Students who desire to take Accountancy Q. (advanced) in the Third Year must satisfy the following conditions:

(a) They must also take Accountancy P.
(b) They must have taken Mathematics in the Second Year.
(c) They must have obtained at least 65% at the examinations in Accountancy of the Second Year, or an average of at least 65% at the examinations in this subject of the First and Second Years together.

(Students failing to reach this 65% margin may present themselves again for examination at the September supplementals.)

†A language cannot be selected in the Third Year unless it had been taken in the two preceding years; a second language cannot be chosen unless it had been studied in at least one of the two preceding years.

## THIRD YEAR.

(*Four-Year Curriculum.*)

(a) Obligatory Subjects.

1. **French,** or **Spanish** (continued).

(b) Optional Subjects—(four 3-hour courses, or their equivalent, to be chosen).

2. **Accountancy.**
3. **Business Organization and Scientific Management** (half course).
4. **Economics** No. 2.
5. **Mathematics** (Course 6 in Arts—Calculus and Differential Equations).
6. **Higher Algebra and Statistics.**
7. **Spanish,** or **French** (continued).
8. **Business and Industrial Psychology** (half course).
9. **Commercial Law.**
10. **Economics** 4 and 5 or 6 and 7.
11. **English (Argumentation and Debate).**
12. **Technology** (same as No. 11 in Fourth Year).

Third and Fourth Year students are allowed the privilege of attending without extra charge, the Extension Course on "Life Insurance, Theory and Salesmanship."

N.B.—(a) Only half credit will be given to a second modern foreign language begun after the Second Year. Students should further note that time-table complications may make it impossible to begin a second language in any Year except the First.

(b) Number 5 must be taken by students proceeding to Actuarial Science in the Fourth Year.

(c) Number 11 (Argumentation and Debate) may be taken either in the Third or the Fourth Year.

(d) Number 12 (Technology) may be taken either in the Third or Fourth Year.

(e) First and Second Year Accountancy are prerequisites to No. 2 above.

(f) Second Year Economics is a prerequisite to courses Nos. 4 and 9 above, and No. 4 above is a prerequisite to No. 9. above.

(g) Second Year Psychology is a prerequisite to No. 8 above.

(h) Physics in the First Year and Chemistry in the Second Year are prerequisites to Technology.

FOURTH YEAR.

(Five 3-hour courses, or their equivalent, to be taken).

1. **French,** or **Spanish** (continued).
2. **Spanish,** or **French** (continued).
3. **Accountancy.**
4. **Economics** No. 3.
5. **Actuarial Science.**
6. **Law.**
7. **Transportation and Marine Insurance.**
8. **Marketing Problems.**
9. **Economics** 4 and 5 or 6 and 7.
10. **English, Argumentation and Debate** (same as No. 11 in the Third Year).
11. **Technology** (same as No. 12 in the Third Year).

N.B.—(a) No. 4 in the First Year, Nos. 2 and 5 in the Second Year, Nos. 2, 3 and 9 in the Third Year, and No. 7 above are all prerequisites to Fourth Year Accountancy (No. 3 above).

(b) No. 3 in the Second Year, and No. 4 in the Third Year are prerequisites to Nos. 4 and 9 above, and No. 4 above is a prerequisite to No. 9 above.

(c) The Honour Mathematical Courses prescribed in the first three years, No. 6 in the Second Year and No. 5 in the Third Year are all prerequisites to Actuarial Science (No. 5 above).

The programme of studies for the Third and Fourth Years, as shown above, does not come into effect until the Session of 1925-26. It is probable, however, that before that time some extension or modifications will be introduced. For instance, it is almost certain that the course in Technology will have to be extended over two years instead of one, and a course on "Electricity and its Application to Industry" may be added.

Another matter that should be noted here is that in all probability it will be made possible for Commerce graduates to proceed to the degree of Bachelor of Arts by taking, after the completion of the Commerce course, the Fourth Year Arts work in Honour Economics. Such students must have previously taken, however, First Year Latin. Facilities are given them for doing so in the First Year Commerce.

## DIPLOMA OF LICENTIATE IN ACCOUNTANCY.

To obtain the Diploma of Licentiate in Accountancy, which carries with it right of entrance into the Association of Accountants in Montreal (Chartered Accountants), or into the Institute of Accountants and Auditors of the Province of Quebec, the student must satisfy the following conditions:—

(a) He must pass all the examinations required for, and leading up to, the Degree of Bachelor of Commerce.

(b) He must pursue the course of studies prescribed in this programme for Accountancy students.

(c) He must comply with all ordinances regulating the practical work to be done by students during the vacation.

(d) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.

(e) He must then pass successfully a Final Examination in Accountancy and Auditing before a board of five examiners, composed as follows: the Director-Secretary of the School of Commercial Studies, two Professors of McGill University, a member of the Association of Accountants in Montreal, and a member of the Institute of Accountants and Auditors of the Province of Quebec; or before a board composed of four examiners, in case either of the Associations mentioned fails, after due notice, to nominate its delegate; or before a board composed of three examiners, in case each of the Associations mentioned fails to nominate its delegate.

This examination will be held during the last week of the month of October each year.

The fee for this examination is $25.00. Previous examination papers may be obtained at the Bursar's Office for $1.00 per set.

## COURSES OF LECTURES.

### ACCOUNTANCY.

The accountancy work has been carefully graduated and correlated, and is intended not merely to fulfil its part in a general scientific business training, but also to prepare and assist those who purpose taking up accountancy as a profession.

No previous knowledge of bookkeeping is assumed or required; the subject is developed rapidly along the lines that prevail in practice.

#### FIRST YEAR.

The following plan will give a good indication of the ground covered in this Year:—

The principle of debit and credit; books of original record, how they should be kept, and how utilized; documents employed in connection with them; sales, purchases, consignments, and how to handle them; returns inwards and returns outwards; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes, and the proper methods of treating these operations in the accounts; single entry, how to change to double entry, and vice versa; distinction between revenue and capital expenditure; income statement and balance sheet; single proprietorships and partnerships.

The student will be required to sift and classify his detail, write up all the books of record and account mentioned, and focus results of the various transactions or operations into the final statements.

#### SECOND YEAR.

The subject matter for this Year will be as follows:—

Special problems that occur in connection with partnerships.—The deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; departmental accounts; organization and records required; sectional balancing of ledgers and systems of internal check; analysis of expenses; distribution of expenses over departments; results in each department; comparison of these results with those shown in other periods; manufacturing accounts; the elements of cost accounting; records to take care of purchases; the voucher system; depreciation and methods of providing for it; allowances and reserves; sinking funds.

THIRD YEAR.

(Corresponds to Accountancy P., old scheme)

The work of the Third Year will embrace:—

(a) Theory of the Balance Sheet.—Its form and elements; valuation of these elements; comparative balance sheets and deductions to be drawn from them; double account system; the income statement.

(b) Corporation Finance.—Development of the corporation; status and interior organization of the corporation; how to incorporate; different classes of corporation; promotion and underwriting; stock and bond issues; temporary loans; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stock-holders; its abuse; consolidations; insolvency; re-organizations; different bases of capitalization; problems connected with stock and bond issues; bonus stock; treasury stock, watered stock; discount and premium on bond issues.

(c) Export Houses.—Records and Accounting system required.

(d) Cost Accounting.—General considerations; advantages of cost systems.

FOURTH YEAR.

(Corresponds to Accountancy Q., old scheme.)

(Intended especially for students proceeding to a Diploma in Accountancy, although this course may be taken by all students who have reached the required standard.)

Cost Accounting.—Control of stores, purchasing and issuing, the running inventory; quality, remuneration, and control of labour, different methods of distributing overhead expenses or "burden" and their limitations; calculation of machine-rates; waste and leakage in factories; idle time; forms used in different "job and process" costing systems; how selling price is computed; connection of cost records with general accounts.

Branches, Consolidations, Mergers.—Accounts of head office and of branches; consolidated statements and balance-sheets; holding corporations; control of stock and bond issues; minority holdings; advances to subsidiaries; inter-company profit; capital assets and capital liabilities; initial surplus and goodwill.

Insolvency Accounts.—Various schedules adopted; statements of affairs; realization and deficiency account; deficiency statement.

Auditing.—Considerations applicable to all undertakings, and special considerations applicable to particular concerns; laboratory practice in auditing.

Trustees' Accounts.—Executorships and administratorships; accrued claims; accrued expenses; corpus and income.

Accounting in Insurance Companies.—General considerations; systems used.

Bank Accounts.—General considerations.

Municipal Accounts.—General considerations.

Peculiarities in the form of accounts required in other undertakings.

### ACTUARIAL SCIENCE.

(a) Advanced theory of interest.

(b) Life contingencies (including life annuities and insurance; the mortality table and monetary and other tables based thereon; construction of tables; probabilities of life; expectations of life; probabilities of survivorship; formulae of Demoivre, Gompertz and Makeham; annuities and assurances; successive lives; policy values; life interests and reversions.

*Text-Books:*—Institute of Actuaries (Pts. 1 & 11); Henry, Finite Differences; Dawson, Insurance; Faekler, Insurance.

### BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT.

Commercial Organization: Origin, growth, and classification of business organization; tests of efficiency in business organization; social and economic and legal aspects in the following types of organization; single proprietorship; partnership; joint stock company; corporation; agreements, pools, kartells; simple business trusts; combination trusts; community of interest organizations; securities-holding organization, amalgamations, and mergers; launching of an industrial enterprise; planning of a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; the committee system; the location of industries; principles of management; types of management; departmental relations; standardization and equipment; standardized operations; written standard-practice instructions; adequate records; efficiency rewards.

### CHEMISTRY.

The course includes a study of the more important elements and compounds, the general laws and principles and the fundamental theories of the science; with as many industrial applications as time will allow. The lectures are illustrated with specimens, experiments, diagrams, lantern-slides, etc. The general intention of the course is to give a thorough training in the basic principles of the science and their applications, so that chemical problems arising in connection with future work and study may be intelligently considered.

*Text-Book:*—McPherson and Henderson, "A Course in General Chemistry."

## ECONOMICS AND POLITICAL SCIENCE.

The work of students who are completing their course under the Three-Year Curriculum will be specially arranged by the Department for 1924-25.

*Four-Year Curriculum.*

SECOND YEAR.

1. **Elements of Political Economy, Economic Geography and Economic History.**
Three hours per week throughout the session....
Assistant Professor Farthing.

THIRD YEAR.

2. **Economic Distribution.**
This course deals with rent, wages, interest, profits, population, socialism and social reform.
Three hours per week throughout the session....
Associate Professor Day.

FOURTH YEAR.

3. **Economic Theory of Exchange.**
Money, banking, prices, index numbers, trade, tariffs.
Three hours per week throughout the session....
Assistant Professor Farthing.

THIRD AND FOURTH YEARS.

4. **Elements of Political Science and Comparative National Government and Taxation.**
General principles of government, and national government and taxation in Great Britain and the United States.
Three hours per week, first term. Given in alternate years beginning in 1924-25.....Associate Professor Day.

5. **Government and Taxation in Canada.**
Federal, provincial and municipal government and systems of taxation.
Three hours per week, second term. Given in alternate years beginning in 1924-25.....Assistant Professor Farthing.

6. **Tariffs, Trade, Transportation.**
Three hours per week, first term. Given in alternate years beginning in 1925-26.....Associate Professor Day.

7. **Social and Industrial Legislation.**
A study of legislation to include factory acts, labour legislation, pensions, insurance, etc.
Three hours per week, second term. Given in alternate years beginning in 1925-26.....Assistant Professor Farthing.

## ENGLISH.

The fundamental purpose of the course in English is to train students to deal with such problems of expression as arise in commercial life. Considerable attention will be given to business correspondence and other forms of commercial writing. The interests of students, however, are best served, even for these special purposes, by a more general training in English. These courses will, therefore, include practice in various kinds of writing, as well as a study of English literature, in which a large amount of reading is required. As far as possible, the writing prescribed for students will be related to the work they are doing in other classes.

The following is a brief outline of the work:—

### FIRST YEAR.

English 1. English Composition, one hour a week. Weekly individual conferences with the instructor are required.

English 2. English Literature, as prescribed for students in the Faculty of Arts,—a general outline course from Chaucer to Kipling. Readings and fortnightly individual conferences. Two hours a week. Associate Professor Macmillan and an assistant.

### SECOND YEAR.

English Literature.—Choice of Second Year Arts Courses.

### THIRD YEAR OR FOURTH YEAR.

Argumentation and Debate, with preparation of briefs, etc.

## FRENCH.

The study of French will be first approached from the literary side, both in order to increase its value to the student as an element of culture and in order to afford a sufficient background for the commercial studies which are to come later. These commercial studies will begin in the Second Year, and will comprise about half of the work done in that Year. In the Third Year work will be almost entirely of a commercial character.

The following is a synopsis of the work:—

### FIRST YEAR.

The student will have a choice between:—

(a) The Advanced Arts Course in French and (b) The Ordinary Arts Course in French, strengthened by tutorial class work.

SECOND YEAR.

In this Year the work will be divided into two sections:—

I. A selected Arts course.

II. Work of a commercial nature, embracing:—

Commercial Correspondence:—Letters of introduction, offers of services, inquiries, acceptance of offers, execution of orders, circulars, invoices and account sales; study of trade reports and commercial documents; study of contracts—bills of sale, mortgage deeds, bills of lading, charter-party, insurance contracts.

THIRD AND FOURTH YEARS.

During these Years one hour a week will be devoted to a study of modern French literature. The remaining hours will be taken up with commercial work, which may be conveniently divided into—

(a) Commercial correspondence, study of trade reports, etc., in continuation of work begun in the Second Year; and (b) colloquial French.

(The text-book to be used for this part will be P. Clerget, Manuel d'économie commerciale.)

**GERMAN.**

The study of German will extend through all four Years.

The Arts courses in German are available to Commerce students.

Provision will also be made for instruction in Commercial correspondence.

**LAW.**

THIRD YEAR.

First Term: (a) Introduction to the study of Law (legal concepts and terms; the two systems in Canada; Common Code and Statute Law).
(b) Elementary principles of the Law of Contract.

Second Term: (a) Partnership and Company Law.
(b) Sale of Goods.

FOURTH YEAR.

First Term: (a) Bankruptcy.
(b) Negotiable Instruments.
(c) Income-Tax.

Second Term: (a) General principles of direct and vicarious liability for accidents.
(b) Insurance Law.
(c) Public International Law.

## MARKETING PROBLEMS.

Organization of wholesale markets: grading of products; produce exchanges; terminology, reports, quotations; governmental regulations, retail store management, including problems of buying, stocking, selling; rapidity of turnover, organization of special sales; sales policies and methods; distribution; price; credit; sales campaigns; advertising, and the factors which control human action in buying and selling; competition, and methods of meeting it; handling of enquiries; claims and complaints; selection, training and management of sales force.

## MATHEMATICS.

### FIRST YEAR.

In this Year the work will be that prescribed for First Year Arts students and will afford a sound training in general mathematics.

### SECOND YEAR.

Theory of interest, annuities certain, the Amortization Schedule and sinking funds; determination of the purchase price and "yield" of annuity, "straight-terms"; serial and other bonds; bonds from the point of view of the issuer; Building and Loan Associations; mathematical treatment of depreciation; valuation of mines.

*Text-Books:*—Rietz, Mathematics of Finance; Mackenzie, Interest and Bond Values; Sprague, Mathematics of Accounting; Walton and Finney, Mathematics of Accounting; King, Theory of Finance; Saliers, Depreciation.

## PHYSICS.

The course in Commercial Physics consists of two lectures and a two-hour laboratory period each week. The object of the course is to introduce the students to the various laws and principles of physics and to make them familiar with the principles underlying the appliances and phenomena of every-day life. In the laboratory the students are required to make measurements and observations under the guidance of instructors. The following headings are indicative of the nature of the course given:—

Simple machines; mechanics of liquids and gases; elasticity and strength of materials; accelerated motion; force; energy; momentum; effects of heat; heat engines; a history of the developments in magnetism and electricity; battery currents; induced currents; electric power; alternating current machines; sound production and transmission; sound phenomena; sound as related to music; lamps and reflectors; lenses and optical instruments; spectra and color phenomena; Roentgen rays and electric waves in general.

## SPANISH.

The study of Spanish will extend through all four Years, and will first be approached from the literary side. In the Second, Third and Fourth years increasing weight will be given to commercial matters.

The following Text-books will be used:—

### FIRST YEAR.

Coester's Spanish Grammar (Ginn & Co.); Loiseaux's Spanish Composition (Silver, Burdett & Co.); Jimenez's "Platero y yo" (Heath & Co.); Valera's "El pajaro verde" (Ginn & Co.); Quintana's "Vida de Blasco Nuñez de Balboa" (Ginn & Co.); prescribed portions of José Rogerio Sañchez's "Historia de la lengua y literatura españolas."

### SECOND YEAR.

Coester's Spanish Grammar; Cool's Spanish Composition (Ginn & Co.); Moratin's "Elsi de las niñas" (Ginn & Co.); Selections from Don Quixote (Heath & Co.); Antologia de cuentos españoles (Heath & Co.); prescribed portions of José Rogerio Sanchez's "Historia de la lengua y literatura españolas."

### THIRD YEAR.

Coester's Spanish Grammar; Cool's Spanish Composition (Ginn & Co.); Cervantes' "Rinconete y Cortadillo" (Oxford Press); Garcilaso de la Vega's first eclogue (Oxford Press); Hartzenbusch's "Los amantes de Teruel" (Heath & Co.); prescribed portions of José Rogerio Sañchez's "Historia de la lengua y literatura españolas"; Romera-Navarro's "Manual del Comercio" (Holt & Co.).

### FOURTH YEAR.

Oxford Book of Spanish Verse, selections from: Calderon's "Alcalde de Zalamea" (Heath & Co.); Becquer, Legends, Tales and Poems (Ginn & Co.); José Rogerio Sañchez's "Historia de la lengua y literatura españolas."

Romera-Navarro's "Manual del Comercio"; other books (to be prescribed) dealing with commerce and industry.

## STATISTICS.

(a) Introductory course on elementary co-ordinate Geometry and Finite Differences.

(b) Scope and meaning of statistics; classification and tabulation; averages; accuracy; application of graphical methods to business problems; construction and use of various "Business Barometers"; index numbers.

*Books:*—Bowley, Elements of Statistics (Pt. 1); Yull, Theory of Statistics; Copeland, Business Statistics; Elderton, Primer of Statistics; Brown and Brown, Finite Differences.

## TECHNOLOGY.

### THIRD YEAR.

This course will cover, during the first term, a study of plant anatomy. The second term will be devoted to the technical application of plant anatomy to forest products and food products. Three hours a week.

### FOURTH YEAR.

This course will consist of (1) a series of lectures by experts on such subjects as, sugar, glucose, leather, etc., and of another on factory practice, including a consideration of filtration, evaporation, distillation, grinding, etc. (Two hours a week), and (2) of a course of one hour a week on the applications of electricity to industry.

## TRANSPORTATION AND MARINE INSURANCE.

Administration and organization of inland and ocean transportation, including the early history of transportation; meaning and importance of railroad statistics; transport and storage of commodities of a perishable and special character; transportation law, marine insurance.

## SCHOOL OF COMMERCE LECTURE TIME-TABLE.

SESSION 1924-25.

| Hour | Year | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|---|
| 9 | 1 | Maths. 2 (sp) (A.108)<br>French,Sect.I (A.115)<br>Maths.Sect.I (A.107) | German (A.114) | Maths. 2 (sp) (A.108)<br>French,Sect.I (A.115)<br>Maths.Sect.I (107) | Physics<br>German (A.114) | Maths. 2 (sp) (A.108)<br>French,Sect.I (A.115)<br>Maths.Sect.I (A.107) | Physics<br>German (A.114) |
| | 2 | Accountancy (A.100) | English (A.5) | Accountancy (A.100) | English (A.5) | Accountancy (A.100) | English (A.5) |
| | 3 | Spanish (A.110) | Acct. (P) (A.100) | Spanish (A.110) | Acct. (P) (A.100) | Spanish (A.110) | Acct. (P) (A.110) |
| 10 | 1 | Acct. (Q) (A.100) | Spanish (A.110) | Acct. (Q) (A.100) | Spanish (A.110) | Acct. (Q) (A.100) | Spanish (A.110) |
| | 2 | French (A.115)<br>Maths. 3 (sp) (A.108) | Maths. (A.3) | French (A.115)<br>Maths. 3 (sp) (A.108) | Maths. (A.3) | French (A.115)<br>Maths. 3 (sp) (A.108) | Maths. (A.3) |
| | 3 | Accountancy | French (A.100) | | French (A.100) | | French (A.100) |
| 11 | 1 | French,Sec.II (A.114)<br>Maths.Sect.II (A.100) | History | French,Sec.II(A.115)<br>Maths.Sec.II (A.100) | History | French,Sec.II(A.115)<br>Maths.Sec.II (A.100) | History |
| | 2 | German (A.114) | Spanish (A.108) | German (A.114) | Spanish (A.108) | German (A.114) | Spanish (A.108) |
| | 3 | Econs.<br>Econs. (A.3) | Statistics (A.5) | Econs.<br>Econs. (A.3) | Inv. Pr. (A.5) | Econs.<br>Econs. (A.3) | Insurance (A.5) |
| 12 | 1<br>2<br>3 | Accountancy (A.100) | English (Biol.)<br>Maths.4 (sp) (A.108) | Accountancy (A.100) | English (Biol.)<br>Maths.4 (sp) (A.108) | Accountancy (A.100) | English (Biol.)<br>Maths.4 (sp)(A.108) |
| 2 | 1<br>2<br>3 | Adv. Econs. (A.5) | Special and Tutorial Classes. | Adv. Econs. (A.5) | Special and Tutorial Classes. | Adv. Econs. (A.5) | |
| 3 | 1<br>2<br>3 | Chemistry (C)<br>Adv. Econs. (A.5)<br>German (A.114) | | Chemistry (C)<br>Adv. Econs. (A.5)<br>German (A.114) | | Chemistry (C)<br>Adv. Econs. (A.5)<br>German (A.114) | |
| 4 | 1<br>2<br>3 | | | Physics | | Physics (Ph.) | |
| 5 | 1<br>2<br>3 | Com. Law (A.115) | | Physics<br>Com. Law (A.115) | | Physics (Ph.)<br>Com. Law (A.115) | |

A.—Arts Building. Numeral indicates number of room. Biol.—Biological Building. C.—Chemistry Building. Ph.—Physics Building.

# FACULTY OF APPLIED SCIENCE.

## DEGREES, EXAMINATIONS AND SOCIETIES.

### 1. DEGREES.

The degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are "Bachelor of Architecture" (B.Arch.) and "Bachelor of Science" (B.Sc.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Science degree in one of the courses provided by the Faculty may graduate in any of the remaining courses by attending one or more subsequent sessions and passing the prescribed additional examinations.

For particulars regarding the Double Courses for the degrees ot B.A. and B.Sc., and of B.A. and B.Arch, see pages 151 and 152.

#### PRIVILEGES FOR HOLDERS OF THESE DEGREES.

Among the privileges enjoyed by Graduates in Engineering, the following may be specially mentioned:—

(1) By a resolution of the Institution of Civil Engineers (England) the holders of the degree of B.Sc., in the courses of civil, electrical, mechanical and mining engineering, who are desirous of becoming Associate Members of the Institution, may under certain conditions be exempted from the examination prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in Civil or Mining Engineering may have his term of apprenticeship for the Dominion Land Surveyors certificate shortened from three years to one.

(3) The McGill School of Architecture is one of the schools recognized by the Royal Institute of British Architects and its instruction meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership and thereby to practice in the Province, on passing an examination in design after spending one

year in the office of a member of the Association. This office experience may be gained by work during the summer vacations.

### 2. EXAMINATIONS.

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held from time to time, at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum shall (except in cases where they are called upon to repeat their year) be required to make good their standing by passing:

(a) The regular supplemental examinations held immediately before the opening of the session, or

(b) The final examinations in a subsequent session, or

(c) Special examinations, which shall be given only under exceptional circumstances and by authority of the Faculty.

**After October 1st, 1924, the pass standard in special supplemental examinations shall be sixty per cent. in subjects in which the candidate has already failed twice, and after February 1st, 1925, the standard shall be sixty per cent. in all second and subsequent supplemental examinations.**

**This rule does not apply when the student has repeated the full work in the subject.**

3. Failures in drafting and laboratory subjects may under certain conditions be made good by attendance on special classes during the late afternoons of the first two months of the following session. These classes must be completed and the results reported to the Faculty on or before December 1st.

4. No undergraduate will be allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects, for particulars regarding which, see page 294.

### 3. ENGINEERING SOCIETIES.

1. The headquarters of the Engineering Institute of Canada are located in Montreal. Students in all departments of engineering are strongly recommended to become student members of the Institute, which they can do on payment of a fee of $3.00. They are then entitled to the monthly journal of the Institute, and to the use of the Institute's rooms, 176 Mansfield Street. They also have opportunities of meeting the prominent engineers of the country, and of being present at the fortnightly sessions, at which papers are read on current engineering subjects and works of construction.

Students are invited to compete for the prizes which are offered by the Institute.

2. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body (see pages 280 and 284), is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin or the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered.

# DEPARTMENTS

IN

# APPLIED SCIENCE

AND

# COURSES OF INSTRUCTION

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SESSION 1924-25

## COURSES OF INSTRUCTION.

The instruction in this Faculty is designed to afford a thorough training of a practical as well as theoretical nature, in the following branches of applied science:—

I.—Architecture.
II.—Chemical Engineering.
III.—Civil Engineering and Surveying.
IV.—Electrical Engineering.
V.—Mechanical Engineering.
VI.—Metallurgical Engineering.
VII.—Mining Engineering.

NOTE.—A course is also offered in Engineering Physics, particulars of which are given on page 146.

Military Instruction (subject No. 400) may be given as alternative to certain subjects in connection with Courses II to VII inclusive (see pages 230 to 241.)

### CURRICULUM.

The curriculum as laid down in the following pages may be changed from time to time as deemed advisable by the Faculty, and in no case shall it be binding beyond the session covered by this calendar announcement.

The regular work of the session 1924-5 will begin on October 1st, 1924, and will end on May 29th, 1925. In the first three years the last month of this period is devoted to field or laboratory classes, details of which are given under "Summer Schools" (see page 243).

The work prescribed for the first two years is the same in all courses, except in that leading to the degree of Bachelor of Architecture (Course I).

The first two years of the engineering courses (II to VII) are mainly devoted to Mathematics, Mechanics, Physics, Chemistry, Drawing and Shopwork, as it is deemed necessary that students in these courses should master the general principles underlying scientific work before commencing the professional subjects.

## 1. ARCHITECTURE.

The course for the degree of Bachelor of Architecture extends over five years. Full information is given in the Announcement of the Department, which will be sent to interested persons upon request to the Registrar of the University.

The work of the First Year is similar in most respects to that of the First Year in other Departments in Applied Science, but special instruction is given in drawing and architectural geometry.

The object of this curriculum is to impart such general culture, scientific knowledge and skill of hand as will prepare the student to profit by the work of the succeeding years, under the heads of:—(*a*) Design; (*b*) Aesthetic; (*c*) History; (*d*) Science; (*e*) Construction; (*f*) Professional Practice; (*g*) Drawing.

An essay on an historical or theoretical subject is required in each term from all students following the historical or theoretical courses.

In all courses studio work goes hand in hand with oral teaching, with a view to the practical application of the theory, while at the same time affording opportunity for the acquisition of power in draughtsmanship and practice in design.

FIRST YEAR.

| SUBJECT | Subject Number | Lectures per week | | Draughting Room and other periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| General History | Arts (1) | 2 | 2 | .. | .. | 173 |
| English | 131 | 2 | 2 | .. | .. | 267 |
| Algebra | 192 | 5 | 4 | .. | .. | 270 |
| Geometry | 191 | 2 | .. | .. | .. | 270 |
| Trigonometry | 193 | .. | 3 | .. | .. | 270 |
| Mechanics | 194 | 2 | 2 | .. | .. | 270 |
| Physical Education | .. | .. | .. | ⅔ | ⅔ | 285 |
| Physics | Arts (1) | 2 | 2 | .. | .. | 183 |
| Physics Lab | Arts (1) | .. | .. | 1 | 1 | 183 |
| Elements of Architecture | 5 | 1 | 1 | .. | .. | 248 |
| Architectural Geometry I | 18 | .. | .. | 2 | 2 | 252 |
| Architectural Drawing | 33 | .. | .. | 1 | 1 | 252 |
| Freehand Drawing | 38 | .. | .. | 2 | 2 | 252 |
| *Surveying Field Work | 347 | .. | .. | .. | .. | 291 |

*This subject is counted as part of the Second Year curriculum but the work is done in the four weeks immediately following the close of the First Year Examinations. (See page 243).

*Any undergraduate student of the First Year in the course of Architecture who at the close of the first term has failed to obtain an average of 33 per cent. in the following five subjects, viz:—mechanics, geometry, algebra, physics and architectural drawing, may be required to withdraw from the Faculty.*

*Any other student of the First or any subsequent year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.*

*All students of the First Year in the Department of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations or in three such subjects aggregating over 350 possible marks, shall be required to repeat the work of the First Year, and while so doing shall be debarred from taking any more advanced work.*

SECOND YEAR.

| SUBJECT | Subject Number | Lectures per week | | Draughting Room and other periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Design A | 1 | .. | .. | 2 | 2 | 248 |
| Elements of Composition | 6 | 1 | 1 | .. | .. | 248 |
| Building Construction | 24 | 1 | 1 | .. | .. | 251 |
| Building Details | 25 | .. | .. | 2 | 2 | 251 |
| Arch. Engineering I | 26 | 1 | 1 | .. | .. | 251 |
| Arch. Eng. (Draughting) I | 27 | .. | .. | 1 | 1 | 251 |
| History of Classic Arch | 14 | 2 | 2 | .. | .. | 250 |
| Arch. Geometry II | 19 | .. | .. | 1 | 1 | 252 |
| Surveying | 346 | 2 | 2 | .. | .. | 290 |
| Mapping | 348 | .. | .. | 1 | 1 | 290 |
| Architectural Drawing | 34 | .. | .. | 1 | 1 | 252 |
| Freehand Drawing | 39 | .. | .. | 1 | 1 | 252 |
| Physical Education | .. | .. | .. | ⅔ | ⅔ | 285 |
| Summer Work | 50 | .. | .. | .. | .. | 253 |
| *Surveying Field Work | 347 | .. | .. | .. | .. | 290 |
| Architectural Essay | 46 | .. | .. | .. | .. | 253 |

*Surveying Field Work is done in the four weeks immediately following the close of the First Year Examinations in April. In the case of students entering from other Universities, this work should be done before entering the Second Year in Summer Schools, as shown on page 243.

*All students of the Second Year in the Department of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in subjects aggregating not less than 350 possible marks, shall be required to repeat the Second Year.*

THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Draughting Room and other periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Design B | 2 | .. | .. | 5 | 5 | 248 |
| Theory of Design* | 7 | 1 | 1 | .. | .. | 248 |
| Arch. Engineering, II A | 28 | 1 | 1 | .. | .. | 251 |
| Arch. Eng. (Draughting), II A. | 29 | .. | .. | 1 | 1 | 251 |
| History of Mediaeval or Renaissance Arch† | 15 or 16 | 2 | 2 | .. | .. | 250 |
| Ornament and Decoration‡ | 9 and 10 or 11 and 12 | 1 | 1 | 1 | 1 | 249 |
| Freehand Drawing | 40 | .. | .. | 2 | 2 | 252 |
| Architectural Drawing | 35 | .. | .. | 1 | 1 | 252 |
| Architectural Essay | 47 | .. | .. | .. | .. | 253 |
| Summer Work and School | 50 | .. | .. | .. | .. | 253 |

FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Design C | 3 | .. | .. | 5 | 5 | 248 |
| Theory of Planning* | 8 | 1 | 1 | .. | .. | 249 |
| Arch. Engineering, II B | 30 | 1 | 1 | .. | .. | 251 |
| Arch. Eng. (Draughting), II B. | 31 | .. | .. | 1 | 1 | 251 |
| History of Mediaeval or Renaissance Architecture | 15 or 16 | 2 | 2 | .. | .. | 250 |
| Ornament and Decoration | 9 and 10 or 11 and 12 | 1 | 1 | 1 | 1 | 249 |
| Architectural Drawing | 36 | .. | .. | 1 | 1 | 252 |
| Freehand Drawing | 41 | .. | .. | 1 | 1 | 252 |
| Modelling | 42 | .. | .. | 1 | 1 | 253 |
| Architectural Essay | 48 | .. | .. | .. | .. | 253 |
| Summer Work and School | 50 | .. | .. | .. | .. | 253 |

FIFTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Design D | 4 | .. | .. | 7 | 7 | 248 |
| Modern Architecture | 17 | 2 | 2 | .. | .. | 250 |
| Professional Practice | 32 | 2 | 2 | .. | .. | 252 |
| Engineering Law | 175 | 1 | 1 | .. | .. | 269 |
| Historical Drawing | 37 | .. | .. | 1 | 1 | 252 |
| Modelling | 43 | .. | .. | 1 | 1 | 252 |
| Hygiene | 22 | 2 | .. | .. | .. | 251 |
| Heating and Ventilation | 23 | .. | 1 | .. | 1 | 251 |
| Architectural Essay | 49 | .. | .. | .. | .. | 253 |
| Summer Work | 50 | .. | .. | .. | .. | 253 |

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1924-25, the History of Mediaeval Architecture will be given.

‡Ornament and Decoration, courses numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1924-25, numbers 11 and 12 will be given.

*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

NOTE.—In the Department of Architecture after two failures in any subject a third examination will only be granted after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see pages 244 to 247.

## II. ENGINEERING COURSES.

The subjects of instruction in the first two years of the Engineering Courses (II to VII), and the number of hours per week devoted to each, are as follows:—

FIRST YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Algebra | 192 | 5 | 4 | .. | .. | 270 |
| Descriptive Geometry | 341 | 1 | 1 | 2/3 | 2/3 | 263 |
| *English | 131 | 2 | 2 | .. | .. | 267 |
| Freehand Drawing and Lettering | 342, 343 | 1 | 1 | 2/3 | 2/3 | 264 |
| Geometry | 191 | 2 | .. | .. | .. | 270 |
| Mechanical Drawing | 211 | .. | .. | 2 | 2 | 271 |
| Mechanics | 194 | 2 | 2 | .. | .. | 270 |
| Physical Education | ... | .. | .. | 2/3 | 2/3 | 285 |
| Physics | 311 | 2 | 2 | .. | .. | 288 |
| Physics Lab | 312 | .. | .. | 1 | 1 | 289 |
| Shopwork | 212-14,220 | .. | .. | 2 | 2 | 271 |
| Shop Methods | 215 | 1 | 1 | .. | .. | 272 |
| Trigonometry | 193 | .. | 3 | .. | .. | 270 |
| †Surveying Fieldwork | 347 | .. | .. | .. | .. | 290 |

*The lectures will be supplemented by individual conferences with the instructors.

†This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year Examinations. (See page 243).

*Any undergraduate student of the First Year, who at the close of the first term has failed to obtain an average of 33 per cent. in the following five subjects, viz:—mechanics, geometry, algebra, physics, and descriptive geometry, may be required to withdraw from the Faculty.*

*Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.*

*All students of the First Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 350 possible marks, shall be required to repeat the work of the First Year, and while so doing shall be debarred from taking any more advanced work.*

SECOND YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Tem | |
| Anal. Geometry | 197 | 3 | .. | .. | .. | 270 |
| Calculus | 198 | 2 | 4 | .. | .. | 271 |
| General Chemistry | 51 | 3 | 3 | .. | .. | 254 |
| General Chem. Lab | 52 | .. | .. | 1 | 1 | 254 |
| Mapping | 348 | .. | .. | 1 | 1 | 290 |
| Materials of Construction | 81 | 1 | 1 | .. | .. | 258 |
| Descriptive Geometry and Perspective | 345 | 1 | 1 | 2/3 | 2/3 | 264 |
| Physical Education | ... | .. | .. | 2/3 | 2/3 | 285 |
| Mechanics | 83 | 2 | 2 | 2/3 | 2/3 | 258 |
| Mech. of Machines | 218 | .. | 1 | .. | 2/3 | 272 |
| Physics | 315 | 2 | 2 | .. | .. | 289 |
| Physics Lab | 316 | .. | .. | 1 | 1 | 289 |
| Shop Processes | 221 | 1 | 1 | .. | .. | 272 |
| Surveying | 346 | 2 | 2 | .. | .. | 290 |
| *Surveying Field Work | 347 | .. | .. | .. | .. | 290 |
| Summer Reading | 132 | .. | .. | .. | .. | 244 |

*Surveying Field Work is done in the four weeks immediately following the close of the First Year Examinations in April (about April 28th, 1925) (see page 243). In the case of students entering from other Universities this work should be done in a Summer School before entering the Second Year (see page 243).

*All students of the Second Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 400 possible marks, shall be required to repeat the Second Year.*

## II. CHEMICAL ENGINEERING.*

The aim of this course is to prepare students for positions demanding a knowledge of both chemistry and engineering. The duties of a chemical engineer require him to be conversant with chemical processes and the installation of chemical units, and to understand the construction of buildings, the installation and operation of machinery, etc. Accordingly the course of study combines a considerable amount of engineering with the maximum of chemical training that can be attained without overpressure.

Between the Second and Third Years, students taking this course must attend a summer session of four weeks in the chemical laboratories.

In the Third Year specialization commences, the time being divided about equally between chemical and engineering studies, and in the vacation between the Third and Fourth Years all students must give at least six weeks to work in some chemical industry or to equivalent laboratory work satisfactory to the Professor of Chemistry.

In the Fourth Year the engineering studies are completed and the chemical studies which predominate are arranged in two alternative courses, as students cannot possibly study more than a few of the very varied chemical industries. These alternative courses fall broadly under one of two headings:—(*a*) inorganic, (*b*) organic, as indicated in the table below, one or other of which the student shall select. Should a student desire to prepare for an industry which requires more engineering knowledge than is provided in the regular course he may substitute additional engineering subjects for some of the chemical work. Details will be arranged on application to the Faculty through the Professor of Chemistry.

While every effort will be made to supply detailed information as to methods and plan of many of the important industries, and to provide facilities for experimentally carrying out the processes involved, the main aim will be to study the principles that underlie the application of chemistry to economical production.

### FIRST AND SECOND YEARS.

As in other Engineering Courses. For details see pages 228 and 229.

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*No student shall be permitted to proceed to the Third Year of this course unless he has secured at least second class standing in the subjects of General Chemistry (51) and Chemistry Laboratory (52).

THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Crushing and Grinding Mach | 295 | 2 | .. | .. | .. | 281 |
| Economics | 171 | .. | 2 | .. | .. | 269 |
| General Elem. Metall | 262 | 2 | .. | .. | .. | 277 |
| Inorg. Quant. Anal. & Lab... | 61–62 | 1 | .. | 3 | 3 | 255 |
| Mech. Eng. and Lab | 226and 228 | 2 | 2 | 1 | 1 | 273 |
| Mineralogy | 142 | 2 | 2 | .. | .. | 268 |
| Mineral. Deter | 143 | .. | .. | 2 | .. | 268 |
| Organic Chemistry and Lab. | 56–57 | 3 | 2 | .. | 2 | 255 |
| Physical Chemistry | 58 | 2 | 1 | .. | .. | 255 |
| Strength of Materials and Lab | 87–88 | 2 | 1<br>2 | .. | 1 | 259 |
| Structural Engineering | 90 | .. | 1 | .. | 1 | 260 |
| Summer School. Inorg. Qual. Anal. and Lab | 54 and 55 | .. | .. | .. | .. | 254 |
| Summer Essay or Reading.. | 133 | .. | .. | .. | .. | 245 |

FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Adv. Inor. Chem | 72 | 2(a) | 2(a) | .. | .. | 258 |
| Adv. Org. Chem. and Lab.. | 64–65 | 2(b) | 2(b) | 4(b) | 2(b) | 256 |
| Applied Electro-Chem | 70 | 2 | .. | .. | .. | 257 |
| *Colloid Chemistry and Lab. | 75 | .. | 2 | .. | .. | 258 |
| Elem. of Elec. Eng. and Lab. | 111–112 | 2 | 2 | 1 | 1 | 264 |
| Engineering Economics | 172 | 2 | .. | .. | .. | 269 |
| †Engineering Law (alt.) | 175 | 1 | 1 | .. | .. | 270 |
| Fire Assaying and Lab | 273 | 1(a) | .. | 1(a) | .. | 279 |
| Food Chemistry | 73 | .. | 1(b) | .. | 2(b) | 256 |
| History of Chemistry | 74 | .. | 1 | .. | .. | 258 |
| †Hydraulics | 100 | 1 | .. | ½ | .. | 262 |
| Industrial Inorg. Chemistry | 68 | 2 | .. | .. | .. | 257 |
| Industrial Organic Chem | 69 | .. | 2 | .. | .. | 257 |
| Inorganic Laboratory | 67 | 1(a) | .. | 3(a) | 4(a) | 257 |
| Metallography and Lab | 282 | ½ | .. | ½ | .. | 280 |
| Military Science (alt.) | 400 | 2 | 2 | .. | 1 | ... |
| Phys. Chem. and Lab | 66 | 3 | 3 | .. | 2 | 256 |
| Summer Essay | 134 | .. | .. | .. | .. | 246 |

*The hours required for laboratory work in this course will be taken from time assigned to subjects 65 or 67.

†Military Science (400) is alternate with Engineering Law (175) and Hydraulics (100).

(a) Inorganic alternative. (b) Organic alternative.

## III. CIVIL ENGINEERING.

The courses of study are designed to emphasize the fundamental principles embodied in the study of mechanics, strength of materials, and hydraulics, while at the same time affording an opportunity of applying these principles to practical problems ranging over as wide a portion as possible of the field covered by the practice of civil engineers. A broad and sound foundation is thus laid for future specialization, either in graduate courses or in actual practice. The outlook of the student is further broadened by courses in Mechanical and Electrical Engineering. In the Fourth Year an alternative course is provided for students looking forward to Municipal Engineering or City Management. In the designing courses special attention is given to the interpretation and critical discussion of specifications as well as to the economical principles involved. Students are recommended to obtain as much practical experience as possible during the summer vacations, and are specially recommended to spend at least one season in a drafting office before the final year.

### FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 228 and 229.

THIRD YEAR

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Economics | 171 | .. | 2 | .. | .. | 269 |
| Foundations | 89 | .. | 1 | .. | 1 | 259 |
| Geology, General | 141 | 2 | 2 | ⅓ | ⅓ | 267 |
| Highway Engineering | 85 | .. | 2 | .. | 2 | 261 |
| Hydraulics and Lab. | 97–98 | 2 | 1 | .. | .. | 260 |
| †Map Projections (alt.) | 351 | .. | .. | 1 | .. | 290 |
| Mech. Eng. and Lab. | 226, 228 | 2 | 2 | 1 | 1 | 273 |
| Mechanics | 86 | 2 | .. | .. | .. | 259 |
| Railway Eng. | 92–93 | 2 | .. | 2 | .. | 260 |
| †Sanitary Science (alt.) | 82 | 1 | .. | 1 | .. | 261 |
| Strength of Mats. and Lab. | 87–88 | 2 | 2 | .. | 1 | 259 |
| Structural Eng. | 90 | .. | 1 | .. | 1 | 260 |
| Surveying | 353 | 2 | 2 | .. | .. | 290 |
| ‡Surveying Field Work | 354 | .. | .. | .. | .. | 290 |
| Summer Reading or Essay | 133 | .. | .. | .. | .. | 245 |

†Map Projections (351) is alternative with Sanitary Science (82).

‡For Surveying Field Work (354), see details of Summer Schools, page 243.

FOURTH YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Elements of Elec. Eng. & Lab. | 111–112 | 2 | 2 | 1 | 1 | 264 |
| Engineering Economics | 172 | 2 | .. | .. | .. | 269 |
| *Engineering Law | 175 | 1 | 1 | .. | .. | 270 |
| Geodesy and Lab. | 359, 360 | 2 | .. | 1 | .. | 291 |
| †Geodetic Fieldwork | 361 | .. | .. | .. | .. | 291 |
| *Military Science | 400 | 2 | 2 | .. | 1 | ... |
| Strength of Materials | 95 | 2 | 1 | .. | 1 | 261 |
| Theory of Structures | 94 | 1 | 2 | 1 | 2 | 261 |
| *and either* | | | | | | |
| Bridge Design | 96 | 2 | 2 | 2 | 2 | 262 |
| *Hydraulic Machines | 99 | .. | 2 | .. | .. | 262 |
| Municipal Engineering | 101 | 2 | 2 | .. | 1 | 262 |
| or | | | | | | |
| Bridge Design | 96a | 2 | 2 | 2 | 1 | 262 |
| Civic Administration | 104 | 1 | .. | .. | .. | 263 |
| Waste Disposal | 103 | 1 | .. | .. | .. | 263 |
| Water Sup. and Sewerage | 102 | .. | 3 | .. | 2 | 262 |
| Summer Essay | 134 | .. | .. | .. | .. | 246 |

*Military Science (400) is alternative with Eng. Law (175) and Hydraulic Machines (99).

†For Geodetic Fieldwork (361) see details of Summer Schools, page 243.

## IV. ELECTRICAL ENGINEERING.

The electrical courses of the Third Year cover a consideration of current flow, the principles of electro-magnetism and electrical measurements.

A course in the design and performance of electrical machinery is followed by the study of alternating currents.

The Fourth Year is devoted almost entirely to Electrical Engineering study.

Technical courses cover the generation, transmission and distribution of electric power, and include lectures and laboratory work on direct and alternating current phenomena, the performance and design of electrical machinery, electric lighting and the various systems of power distribution and transmission. Courses are given on Central Station Design, Electrical Traction Systems, Hydro Electric Power development, Electro-Chemistry, Electro-Metallurgy, Electrical Measurements and Communication Engineering.

Visits are made to Electrical Works and Power Plants.

### FIRST AND SECOND YEARS.

As in other Engineering Courses. For details see pages 228 and 229.

THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Calculus | 201 | 1 | 1 | .. | .. | 271 |
| Economics | 171 | .. | 2 | .. | .. | 269 |
| Electrical Engineering | 113 | 3 | 3 | .. | .. | 265 |
| Electrical Engin. Lab. | 114 | 1 | 1 | 2⅔ | 2⅔ | 265 |
| Machine Design | 225 | 2 | 2 | .. | .. | 273 |
| Mechanical Drawing | 232 | .. | .. | 1 | 1 | 274 |
| Mech. Eng. and Lab | 223,226 | 2 | 2 | 2 | 1 | 273 |
| Mechanics | 86 | 2 | .. | .. | .. | 259 |
| Mech. of Machines | 224 | 2 | 2 | ⅔ | ⅔ | 272 |
| Thermodynamics | 229 | 2 | 2 | .. | .. | 274 |
| Strength of Mats and Lab. | 87, 88 | 2 | 2 | .. | 1 | 259 |
| Summer Reading or Essay | 133 | .. | .. | .. | .. | 245 |

FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Applications of Electricity | 123 | 1 | 3 | .. | .. | 266 |
| Applied Elec. Chem. | 70 | 2 | .. | .. | .. | 257 |
| Electric Traction | 121 | .. | 2 | .. | .. | 266 |
| †Electrical Designing | 122 | 2 | 2 | 1 | 1 | 266 |
| Electrical Engineering | 117–118 | 3 | 3 | 3 | 3 | 265 |
| Elec. Light & Power Dist. | 120 | 2 | .. | .. | .. | 266 |
| Electrical Photometry and Illumination | 124 | 2 | .. | .. | .. | 266 |
| Electro-Metallurgy | 276 | .. | 2 | .. | .. | 279 |
| Engineering Economics | 172 | 2 | .. | .. | .. | 269 |
| †Engineering Law (alt.) | 175 | 1 | 1 | .. | .. | 270 |
| Hydraulics and Lab. | 97, 98 | 2 | .. | 1 | .. | 260 |
| Machine Design | 243 | .. | 2 | .. | .. | 275 |
| †Military Science (alt.) | 400 | 2 | 2 | .. | 1 | .. |
| Physics and Lab. | 320, 321 | 2 | 2 | 2 | 2 | 289 |
| Summer Essay | 134 | .. | .. | .. | .. | 246 |

†Military Science (400) is alternative with Engineering Law (175) and one lecture hour per week of Electrical Design (122).

For Summer Schools, see page 243.

For the Course in Engineering Physics, see page 242.

## V. MECHANICAL ENGINEERING.

Undergraduates entering the Third Year Mechanical Engineering course may elect one of two courses; either that embracing Mechanics of Machines and advanced Thermodynamics or that embracing Accounting, Mill Buildings and Industrial Administration.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(*a*) The constructive or manufacturing side of mechanical engineering, including industrial or production engineering; (*b*) steam engineering; (*c*) gas engine and producer work; (*d*) power plant engineering; (*e*) heating and ventilation of buildings and factories; (*f*) aeronautics and aerodynamics.

Courses are given during the Third and Fourth Years in mechanical engineernig as applied to questions connected with power installations and prime movers. The earlier portion of this work is supplementary to the instruction given in thermodynamics, mechanics of machines and machine design, and leads up to the more advanced or technical subjects of power plant design, industrial plant design and works organization.

Students in the Department of Mechanical Engineering take work in Electrical Engineering during the Third Year.

Instruction in workshop practice is given in the First, Third and Fourth Years. This work is of a systematic nature, and is intended to prepare for, but by no means to replace, that practical experience of manufacturing operations on a commercial basis which every mechanical engineer must obtain for himself.

The course in thermodynamics deals more particularly with the theory of heat engines, and time is assigned for additional graphical and experimental work in connection with the subject.

Arrangements are made for occasional visits to power plants and manufactories of importance.

### FIRST AND SECOND YEARS.

As in other Engineering Courses (see pages 228 and 229, with additional course in May for Second Year, page 243).

THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| *Accounting (alt.) | 238 | 2 | 2 | 1/8 | 1/8 | 275 |
| Economics | 171 | .. | 2 | .. | .. | 269 |
| Elements of Elect. Eng. Lab. | 111–112 | 2 | 2 | 1 | 1 | 264 |
| Industrial Engineering | 237 | 2 | .. | .. | .. | 274 |
| Machine Design | 225 | 2 | 2 | .. | .. | 273 |
| Mechanical Drawing | 231 | .. | .. | 2 | 1 | 274 |
| Mechanical Eng. and Lab. | 227, 228 | 3 | 3 | 1 | 1 | 273 |
| Mechanics | 86 | 2 | .. | .. | .. | 259 |
| Mechanics of Machines (alt.) | 224 | 2 | 2 | 1/8 | 1/8 | 272 |
| Shopwork | 235, 236 | .. | .. | 1 | 1 | 274 |
| Strength of Mats. and Lab. | 87, 88 | 2 | 2 | .. | 1 | 259 |
| Structural Engineering | 90 | .. | 1 | .. | 1 | 260 |
| Thermodynamics | 229 | 2 | 2 | .. | .. | 274 |
| Summer School Shopwork | 233, 234 | .. | .. | .. | .. | 274 |
| Summer Reading or Essay | 133 | .. | .. | .. | .. | 245 |

*Alternative with Mechanics of Machines (224); one or other of these subjects must be taken.

FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Designing | 241 | .. | .. | 1 | 1 | 275 |
| Engineering Economics | 172 | 2 | .. | .. | .. | 269 |
| †Engineering Law (alt.) | 175 | 1 | 1 | .. | .. | 270 |
| Experimental Eng. | 257 | 1 | 1 | .. | .. | 276 |
| Heat and Vent. of Buildings | 247 | 1 | 1 | .. | .. | 275 |
| Hydraulics and Lab. | 97, 98 | 2 | .. | 1 | .. | 260 |
| †Hydraulic Mach. | 99 | .. | 2 | .. | .. | 262 |
| Industrial Administration | 254 | 2 | 2 | 1 | 1 | 277 |
| **Man. Plant Des. (alt.) | 253 | .. | 2 | .. | 1 | 276 |
| Machine Design | 242 | 2 | 2 | .. | .. | 275 |
| Power Plant Design | 244 | 1 | 1 | 1 | 1 | 275 |
| Mech. Eng. Lab. | 249 | .. | .. | 3 | 3 | 276 |
| Mech. Eng. Lab. | 249a | .. | .. | 2 | 2 | 276 |
| Mech. of Mach. (alt.) | 240 | 2 | 2 | 1/8 | 1/8 | 275 |
| †Military Science (alt.) | 400 | 2 | 2 | .. | 1 | ... |
| **Mill Buildings | 91 | 1 | .. | 2/8 | .. | 260 |
| Shopwork | 252 | .. | .. | 1 | 1 | 276 |
| *Thermodynamics | 251 | 2 | 2 | .. | .. | 276 |
| Summer Essay | 134 | .. | .. | .. | .. | 246 |

†Military Science (400) is alternative with Engineering Law (175) and Hydrauli2 Machinery.

**Students electing the Accounting alternative (258) in the Third Year must take these two subjects in the Fourth. Mechanics of Machines (240) cannot be taken.

*Industrial Administration (254) alternative with Thermodynamics (251).

Students taking course (254) take course (249a) in Mech. Eng. Laboratory.

## VI. METALLURGICAL ENGINEERING.

This course is designed for students intending to enter metallurgical works, such as steel works, smelting or refining plants, foundries, rolling mills, etc., or the metallurgical departments of large engineering works.

The course of instruction provides: 1st, a general scientific and engineering education; 2nd, more advanced work in inorganic, physical and electro chemistry and chemical analysis, which subjects are essential for a metallurgist; 3rd, as much mechanical, electrical and hydraulic engineering as time will permit; 4th, a course in the allied subjects of geology, ore deposits and mining; 5th, a full course of instruction in the various branches of metallurgical engineering and the closely related subjects, mineralogy, ore-dressing and fire-assaying.

Between the Second and Third Years there is a four weeks' Summer School in qualitative analysis in the Chemical Laboratory, beginning about the 1st of May.

In the Third Year instruction is given in economics, chemistry, physical chemistry, assaying, geology, mineralogy, mining, ore-dressing, metallurgy, and mechanical and structural engineering.

A metallurgical Field School is held after the April examinations of the Third Year. In this school the students pay visits to a number of metallurgical plants under the guidance of the Department Staff and Officials of the plants visited, and make a careful study of the design and operation of each.

Students are expected, as far as this is practicable, to obtain employment in some metallurgical works during the summer before entering the Fourth Year, and suitable employment can usually be obtained at the end of the Field School.

In the Fourth Year instruction is given in chemistry, electro-chemistry, electrical engineering, law, economics, hydraulics, metallurgy, electro-metallurgy, metallography, ore deposits and ore-dressing. Metallurgical designing and laboratory work form important parts of the course.

Laboratory accommodation is provided for graduate students who wish to do advanced work in some branch of metallurgy in preparation for the M.Sc. degree, and a Research Fellowship is available each year for some graduating student who shows marked ability for such work.

### FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 228 and 229.

THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Economics | 171 | .. | 2 | .. | .. | 269 |
| Fire Assaying and Lab | 263, 264 | .. | 1 | .. | 2 | 272 |
| Geology, General | 141 | 2 | 2 | ⅓ | ⅓ | 267 |
| Gen. Elem. Metall. & Lab. | 261 | 2 | .. | .. | ½ | 277 |
| Inorg. Quant. Anal. and Lab. | 61, 62 | 1 | .. | 3 | .. | 245 |
| Mech. Eng. and Lab. | 226, 228 | 2 | 2 | 1 | 1 | 273 |
| Metall. Calculations | 265 | 1 | .. | .. | .. | 278 |
| Mineralogy | 142 | 2 | 2 | .. | .. | 268 |
| Mineralogy, Determinative. | 143 | .. | .. | 2 | .. | 268 |
| Mining Engineering | 291 | .. | 2 | .. | .. | 281 |
| Ore Dressing and Lab. | 292 | 2 | 2 | .. | ½ | 281 |
| Physical Chemistry | 58 | 2 | .. | .. | .. | 255 |
| Strength of Mats. and Lab. | 87, 88 | 2 | 2 | .. | 1 | 259 |
| Structural Engineering | 90 | .. | 1 | .. | 1 | 260 |
| Summer School, Inorg. Qual. Anal. and Lab. | 54, 55 | .. | .. | .. | .. | 254 |
| Summer Reading or Essay | 133 | .. | .. | .. | .. | 245 |

FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| ‡Applied Electro-Chemistry. | 70 | 2 | .. | .. | .. | 257 |
| Elem. Elec. Eng. and Lab. | 111, 112 | 2 | 2 | 1 | 1 | 264 |
| Electro-Metal and Lab. | 275 | .. | 2 | .. | 1 | 279 |
| Engineering Economics | 172 | 2 | .. | .. | .. | 269 |
| †Engineering Law | 175 | 1 | 1 | .. | .. | 270 |
| General Metallurgy | 271 | 2 | 2 | .. | .. | 278 |
| Hydraulics and Lab. | 100 | 1 | .. | ½ | .. | 262 |
| ‡Industrial Chemistry, Inorg | 68 | 2 | .. | .. | .. | 257 |
| Inorganic Lab. | 67 | 1 | .. | 3 | .. | 257 |
| Metallurgy, Advanced | 272 | 2 | 2 | .. | .. | 278 |
| Metallurgical Lab. and Thesis | 274 | .. | .. | .. | 3 | 279 |
| Metallurgy Colloquium | 277 | .. | 1 | .. | .. | 279 |
| Metal Calcs. and Design. | 278 | 1 | .. | .. | 2 | 279 |
| †Metallurgical Analysis | 279 | .. | 1 | .. | 1 | 279 |
| Metallography and Lab. | 280, 281 | 1 | .. | 1 | .. | 280 |
| †Military Science (alt.) | 400 | 2 | 2 | .. | 1 | ... |
| Ore-Dressing and Lab. | 300, 305 | 2 | .. | 1 | .. | 282 |
| †Ore Deposits (alt.) | 148 | 1 | 1 | .. | .. | 268 |
| *Metallurgical Field School. | 267 | .. | .. | .. | .. | 278 |
| Summer Essay | 134 | .. | .. | .. | .. | 246 |

‡Applied Electro-Chemistry (70) is alternative with Industrial Chemistry (68).

†Students taking Military Science or Ore Deposits omit Engineering Law (175) and Metallurgical Analysis (279).

*Metallurgical Field School (267) is taken at the end of the Third Year.

For Summer Schools, see page 243.

## VII. MINING ENGINEERING.

The work of the Third Year is largely in general engineering subjects such as applied mechanics, mechanical engineering, geology, mineralogy and surveying, but courses of special interest to Mining Engineers are introduced in ore-dressing and elementary mining and metallurgy.

The Fourth Year, on the other hand, is very largely given up to technical work in mining, ore-dressing, economic geology and metallurgy, and two alternative lines of study are offered, both including the essential subjects of the Mining Course and leading to the degree. The first alternative (*a*) offers additional instruction in stratigraphy and petrography, and is intended for men who are especially interested in geology and mining geology. The second (*b*) offers an equivalent amount of special instruction in advanced mining and ore-dressing and permits of a considerable measure of individual specialization in mining subjects.

In both of the above alternatives, the Fourth Year work includes the equivalent of nearly two full days per week in the laboratories and drafting room of the mining department, and in the second term each student is required to prepare a thesis giving the result of an extended individual experimental investigation.

A Field School in mining, ore-dressing and geology is held between the Third and Fourth Years, the work ordinarily beginning immediately after the close of the April examinations. From four to five weeks are spent in travel, during which a certain amount of geological field work is done and a number of mines and concentrators are visited and critically studied under the direction of the Departmental staff. At the end of this Field School summer employment with pay can ordinarily be arranged for all members of the class.

Facilities are also afforded to graduate students who wish to do advanced work in mining or ore-dressing, and the Department possesses three endowed research fellowships open to graduates who show exceptional ability. (See page 106.)

### FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 228 and 229.

THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Economics | 171 | .. | 2 | .. | .. | 269 |
| Fire Assaying | 263 | .. | 1 | .. | 2 | 277 |
| Geology, General | 141 | 2 | 2 | ⅓ | ⅓ | 267 |
| Inorg. Qual. Anal. and Lab. | 59, 60 | 1 | .. | 2 | .. | 255 |
| Mine Mapping | 293 | .. | .. | 1 | .. | 281 |
| Mech. Eng. and Lab. | 226, 228 | 2 | 2 | 1 | 1 | 273 |
| Gen. Element. Metall. | 261 | 2 | .. | .. | ½ | 277 |
| Mineralogy | 142 | 2 | 2 | .. | .. | 268 |
| Mineralogy, Determinative. | 143 | .. | .. | 2 | .. | 268 |
| Mining Engineering | 291 | .. | 2 | .. | .. | 281 |
| Ore Dressing and Lab. | 292 | 2 | 2 | .. | ½ | 281 |
| Strength of Mats. and Lab. | 87, 88 | 2 | 2 | .. | 1 | 259 |
| Structural Engineering | 90 | .. | 1 | .. | 1 | 260 |
| Surveying | 352 | 2 | .. | .. | .. | 290 |
| Surveying Field Work | 354 | .. | .. | .. | .. | 290 |
| Summer Reading or Essay | 133 | .. | .. | .. | .. | 245 |

FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Engineering Economics | 172 | 2 | .. | ½ | ½ | 269 |
| Elem. of Elec. Eng. and Lab. | 111a | 2 | .. | .. | 1 | 264 |
| Engineering Law (alt.) | 175 | 1 | 1 | .. | .. | 270 |
| Geology of Canada | 149 | 1 | .. | .. | .. | 269 |
| ‡Geology, Historical (alt.) | 152 | 1 | 1 | .. | 1 | 269 |
| Hydraulics | 100 | 1 | .. | ½ | .. | 262 |
| Inorg. Quantitative Anal. | 71 | .. | .. | 4 | .. | 257 |
| Metallurgy, General | 271 | 2 | 2 | .. | .. | 278 |
| *Military Science (alt.) | 400 | 2 | 2 | .. | 1 | ... |
| Mining Engineering | 297 | 3 | 3 | .. | .. | 281 |
| Mining Machinery | 298 | .. | 3 | .. | 2 | 282 |
| †Mining (Adv.) | 299 | 1 | 1 | 1 | 1 | 282 |
| Mining Colloquium | 301 | .. | 1 | .. | .. | 282 |
| Ore Dep. and Econ. Geol. | 148 | 1 | 4 | .. | .. | 268 |
| Ore-Dress., Milling and Lab. | 300, 305 | 2 | .. | 1 | .. | 282 |
| Ore-Dress., Lab. and Thesis. | 306 | .. | .. | .. | 2½ | 282 |
| Petrography and Lab | 146 | 1 | .. | .. | 1 | 268 |
| ‡Petrography Advan. (alt.) | 147 | .. | .. | 1 | .. | 268 |
| Mining Field School | 294 | .. | .. | .. | .. | 284 |
| Summer Essay | 134 | .. | .. | .. | .. | 246 |

*Students taking Military Science omit the whole of Engineering Law (175) and 12c lectures each, in Mining Machinery (298) and Ore Deposits (148).

†Omitted by students taking elective alternative (a).

‡Omitted by students taking elective alternative (b).

Surveying Field work, between the Second and Third Years. See page 291.

NOTE.—Mining Field work at end of Third Year. See page 284.

## COURSE IN ENGINEERING PHYSICS.

There is an increasing demand for men with an advanced knowledge of Mathematics and Physics who are capable of conducting investigations of a research character.

With a suitable training, openings in this field of work may be found in Research Laboratories of the Government and of Electric Corporations, in consulting work and in University appointments.

In view of these facts a course in Engineering Physics leading to the Degree of B.Sc. in Arts has been arranged.

It is open to capable students in Arts or Applied Science.

A student who has completed his Second Year in the Faculty of Applied Science and has received first or second class rank in Mathematics and Physics may join the course in Engineering Physics, as outlined below, subject to the approval of the Heads of the Departments of Electrical Engineering and Physics.

### Third Year.

**Mathematics, 5, 6, 4B** (see page 175).

**Physics 5A, 5B, 6B,** *or* **8B,** (see page 184).

**Electrical Engineering 113, 114** (see page 265).

During the summer at the end of the Second Year, students must spend three months at an approved shop or radio station.

### Fourth Year.

**Mathematics 9** *or* **10** (see page 176).

**Physics 6A, 7A, 8A and 6B** *or* **8B** (see page 184).

(Summer Thesis or Shop Work.)

The student may now receive the degree of B.Sc. (Arts), with honours in Mathematics and Physics. In the Fifth Year the student should take the whole of the Fourth Year course in Electrical Engineering, as shown on page 235, and also Physics 9 and 12 *or* 14 (6A has already been taken), and proceed with research work and a thesis with a view to an M.Sc. degree.

The course must therefore cover five years and should cover six. During the last year (the sixth), opportunity would usually be afforded to act as demonstrator with a salary.

## SUMMER SCHOOLS.

Undergraduates are required to attend Summer Sessions as specified below. The work is set forth in detail under the subject numbers referred to.

Except as noted, classes are expected to begin on April 27th and close on May 24th, 1925.

| COURSE | Students entering Second Year | | Students entering Third Year | | Students entering Fourth Year | |
|---|---|---|---|---|---|---|
| | Subject No. | Page | Subject No. | Page | Subject No. | Page |
| Architecture | 347 | 290 | 50 | 253 | †50 | 253 |
| Chemical Engineering | 347 | 290 | 54, 55 | 254 | ... | ... |
| Civil Engineering | 347 | 290 | 354 | 290 | 361 | 291 |
| Elect. Engineering | 347 | 290 | ... | ... | ... | ... |
| Mechanical Engineering | 347 | 290 | 233, 234 | 274 | ... | ... |
| Metallurgical Engineering | 347 | 290 | 54, 55 | 254 | 267 | 278 |
| Mining Engineering | 347 | 290 | 354 | 290 | 294 | 284 |

†This school will be held in September, 1924, and will last a little over two weeks. Exact particulars as to dates, etc., must be obtained from the Head of the Department.

NOTE.—SPECIAL SUMMER SCHOOLS.

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that they only apply to students who have not previously been in attendance in the Faculty of Applied Science.

(a) Students entering the Second Year are required to attend a special Summer School in Surveying which extends from September 15th to 27th, inclusive, preceding the work of the Session. Additional work may be required in the following year if necessary to cover the course.

(b) Students entering the Third Year of the courses in Chemical Engineering and Metallurgical Engineering are required to attend a Special Summer School in Chemistry which extends over a period of four weeks during the month of September preceding the work of the Session.

(c) Students entering the Third Year in the course in Mechanical Engineering should attend a Special Summer School in Shopwork held in September. This School may, however, in certain cases be replaced by other work which has received in advance the approval of the Head of the Department.

(d) Students entering the Third Year in the courses in Civil and Mining Engineering are required to attend a Special Summer School in Surveying from September 15th to 27th, inclusive, and in these courses further work in Surveying, to be specified by the Head of the Department, is required for a portion of the month of May following.

(e) Students entering the Third Year in the course in Electrical Engineering are required to submit evidence satisfactory to the Head of the Department that they have been employed for a time at least equivalent to one month of steady employment, in a first-class electrical shop during the vacation preceding their entrance into the Third Year.

(f) Students entering the Third Year or any subsequent year in the course in Architecture must submit evidence satisfactory to the Head of the Department that they have done summer work fully equivalent to the regular scheduled summer work omitted.

(g) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses and should by correspondence in the preceding spring secure the approval of the Head of the Department concerned of the work which they propose to offer in place of the regular summer work.

# SUMMER ESSAYS AND SUMMER READING

SESSION 1924-25

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### I. For Students entering the Second Year.

All students entering the Second Year, except those in the course in Architecture (see below), will be required to read not less than three books from Group "A" and one book from Group "B" in the following list:—

"A"

| | |
|---|---|
| Macaulay— | Essays on Hampden, Walpole, P tt, Chatham and Hastings. No. 225, Everyman's Library. J. M. Dent & Sons, Ltd. (90c.) |
| Froude— | "Life of Beaconsfield." No. 666, Everyman's Library. (90c.) |
| Russell— | "Life of Gladstone." No. 661, Everyman's Library. (90c.) |
| Withers— | "Poverty and Waste." E. P. Dutton & Co. ($1.25) or Murray (6s.) |
| Farrand— | "The Development of the United States." Houghton Mifflin Company. ($1.50.) |
| Parkman— | "Montcalm and Wolfe." Little, Brown Company. (2 Vols., $3.50.) |

"B"

| | |
|---|---|
| Thackeray— | "Vanity Fair." No. 298, Everyman's Library. (90c.) |
| George Eliot— | "The Mill on the Floss." No. 325, Everyman's Library. (90c.) |
| Stevenson— | "Kidnapped." Cassels, London; Burt, New York. (60c.) |

Note.—Wells' "Outline of History" (unabridged edition) may be substituted for any three books on the above lists.

Students in the course in Architecture must read the following books:—

"Architecture" —Lethaby, W. R.
(Home University Library, W. Briggs, Toronto).

"The Gladiators"—Whyte, Melville.
No. 523, Everyman's Library.

Students in the course in Architecture must also either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

All students will be required to pass an examination in the summer reading at the opening of the session. A maximum of 100 marks will be allowed for this reading.

### 2 For Students entering the Third Year

Students entering the Third Year must either

(a) Follow a course of summer reading, *or*

(b) Prepare an essay.

(a) The summer reading required, except in the course in Architecture (see below), is, Ogg—"Economic Development of Modern Europe" ($3 50, Macmillan), on which an examination will be held at the opening of the session. The same number of marks are allotted for this reading as for the essay.

(b) The essay must in all respects follow the specifications laid down for essays submitted by students entering the Fourth Year, except that it may be shorter. All rules and regulations governing the Fourth Year essays, as set forth below, also apply to the Third Year essays. (See Section 3.)

Students in Electrical Engineering or Mechanical Engineering who elect to write an essay and are not engaged during the summer on any engineering, scientific or industrial work which would afford a subject for an essay, may write on one of the following subjects:—

(Electrical Engineering students.)
The application of Electric Power to Industrial Establishments.

(Mechanical Engineering students.)
(1) Oil Fuel for Domestic Heating.
(2) Pulp and Paper Manufacture.
(3) Heavy Oil Engines.

Students in Mining Engineering, or Metallurgical Engineering, who are for any reason unable to write on some engineering work of which they have personal knowledge will be required to take the summer reading (a).

Students in the course in Architecture must either read the following books or submit an essay on a subject approved by the Head of the Department, viz.,

"Chronicles of the Crusades"
No. 333, Everyman's Library.

"The Revolutions of Civilization"—W. M. Flinders Petrie.
Harpers Library of Living Thought.

The rules and regulations governing the Fourth and Fifth Years in Architecture also apply to the Third Year essay or reading in this Department. (See Section 3.)

*Summer Essays must be handed in at the Dean's Office not later than 5 p.m. on Friday, October 10th.*

Students in the course in Architecture must also either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

### 3. For Students entering the Fourth and Fifth Years.

Students entering the Fourth year, except those in the course in Architecture (see below), are required to prepare an essay during the summer, to be handed in at the Dean's office *not later than 5 p.m. on Friday, October 10th.* A maximum of 100 marks, or nearly 10% of the total marks for the year, is given for these essays.

The essays should be from 2,000 to 5,000 words in length in ordinary cases. They should be illustrated by drawings, sketches, and, when desirable, by photographs, specimens, etc., and must be written on paper of substantial quality and of a size approximately 8½ x 11 inches.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written permission of the head of his department to prepare such an essay. Information obtained from books and other sources may, however, be quite properly used or even quoted verbatim, provided full acknowledgment be made and all quotations enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full and complete acknowledgment is made.

The essays must be well expressed, and written in precise, well chosen, grammatical English. In judging the value of the essays, account will be taken not only of the subject matter, but also of style and literary construction.

All essays when handed in will become the property of the department concerned and will be filed for reference. Students are, however, permitted to submit duplicate copies of their essays in competition for the students' prizes of the Engineering Institute of Canada, or of the Canadian Institute of Mining and Metallurgy.

The *most acceptable subject for an essay* is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific, or industrial work with which he is familiar will be accepted.

Students in Electrical Engineering, or Mechanical Engineering, who are not directly connected with any such work, may write on one of the following subjects:—

(Electrical Engineering students.)

(1) Generation of Electric Power.
(2) Long Distance Power Transmission.
(3) Distribution of Electric Power.
(4) Electrification of Railways.

(Mechanical Engineering students.)

(1) Power Costs.
(2) Central Station Heating.
(3) Methods of Increasing Production in Manufacturing.
(4) Exhaust Steam Turbines using Steam at Pressures below Atmospheric.

Students in the course in Architecture must either read the following books, or submit an essay on a subject approved by the Head of the Department, viz.,

(Fourth Year).

"Chronicles of the Crusades."
No. 333, Everyman's Library.

"The Revolutions of Civilization"—W. M. Flinders Petrie.
Harpers Library of Living Thought.

(Fifth Year).

"Towards a Theory of Art."
Lascelles Abercrombie. Martin Secker.

'Coningsby."—Disraeli.
No. 535, Everyman's Library.

Students who take the Reading will be required to pass an examination in the same at the opening of the session. The same number of marks will be allotted for this reading as for the essay.

*Summer Essays must be handed in at the Dean's Office not later than 5 p.m. on Friday, October 10th.*

In addition to this reading, or essay, students in the course in Architecture must either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

## SUBJECTS OF INSTRUCTION.

The following courses are subject to such modifications during the year as the Faculty may deem advisable.

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### DEPARTMENT OF ARCHITECTURE.

PROFESSORS:— { RAMSAY TRAQUAIR (in charge of Department).
PERCY E. NOBBS (in charge of Design).

ASSISTANT PROFESSOR:—W. E. CARLESS.

SPECIAL INSTRUCTOR:—E. DYONNET.

SPECIAL LECTURERS:— { P. J. TURNER.
LESSLIE R. THOMSON.

#### A.—Design.

The course in Design is divided into four classes (A, B, C and D), intended to be taken in the Second, Third, Fourth and Fifth Years respectively. Advanced or backward students may be allotted to design classes to suit their individual requirements irrespective of their standing in other subjects, but good standing in Class D must be obtained prior to receiving the degree.

1. CLASS A. Simple problems in composition of a monumental nature, not involving difficulties of plan.
2. CLASS B. The design of domestic and small public buildings.
3. CLASS C. The design of public buildings.
4. CLASS D. Problems involving the plan, structure and lay-out of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.—Prof. Nobbs.

#### B.—Aesthetic.

The theoretical courses are intended to develop a sense of critical judgment in the student, emphasizing the fundamental principles of composition and design.

5. THE ELEMENTS OF ARCHITECTURE (24 lectures).

The five orders of Vignola, pedestals, pediments, intercolumniation and superposition of orders, arches, vaults, domes, roofs, openings, etc. —Mr. Carless.

6. THE ELEMENTS OF COMPOSITION (24 lectures).

Analogies in the arts; principles of composition, mass unity, balance, character, scale, proportion; symmetric and asymmetric grouping; vertical and horizontal treatments; composition in plan, natural and axial; appreciation of intrinsic qualities of materials, values of textures, etc.—Mr. Carless.

7. THEORY OF DESIGN (24 lectures).

(a) *Principles of Aesthetic:*—The history of æsthetic enquiry, perception, emotion, pleasure, pain and expression; the art impulse; beauty defined, the work of art; subject, emotional content and medium; the criteria.

(b) *Application of Aesthetic:*—Pure design; the function of ornament, "motif," the material treatment, the placing and classifications of ornament; the evolution of functional forms, analysis of conventional forms; the uses of scale and proportion; corrections and refinements.

Students will read selected passages from the works of Santayana, Yrjö Hirn, Croce, Marshall, Geoffrey Scott, Baldwin Brown and Blomfield, etc.—Professor Nobbs.

8. Theory of Planning (24 lectures).

(a) *Elements of Planning:*—Dimensions, arrangements, scales, aspect, prospect, light, the structural bay, unit planning, axial planning.

(b) *Domestic Planning:*—Stables, cottages, housing, residences; country houses and gardens; apartment houses.

(c) *Public Buildings:*—Churches, halls, theatres, schools, libraries, hospitals, baths, fire stations, municipal buildings, etc.

*Note:*—The examples studied are selected from current architecture.—Prof. Nobbs.

Courses 7 and 8 will be taken in alternate years until further notice.

Ornament and Decoration (48 lectures and 48 drafting periods), 9, 10, 11 and 12.

9. Decorative Heraldry. The place of heraldry in the arts; the laws of heraldry, heraldic art of different periods; modern practice and tendencies; symbolism and significant ornament.—Prof. Traquair.

*Text-book:*—Decorative Heraldry, Eve. *Reference:*—The Art of Heraldry, Fox Davies.

10. Ornament in Form. The design of plaster work, terra cotta, stone carving, architectural sculpture, wood carving and furniture is dealt with as the evolution of form in distinctive materials, influenced incidentally by the prevailing taste of different periods.—Prof. Traquair.

*Reference Books:*—Plastering, Plain and Decorative, Millar; The Art of the Plasterer, Bankart; Mediæval Figure Sculpture in England, Prior.

11. Metal Work. The design of wrought and cast iron, bronze, copper, brass, pewter, silver, gold and jewellery is dealt with historically and as the results of the methods of workmanship.—Prof. Traquair.

*Reference Books:*—English and Scottish Wrought Iron Work, Murphy; Ironwork, Starkie Gardner; Leadwork, Lethaby.

12. Color Decoration. Stained glass, mosaic of various kinds, inlays, the use of colored materials in external and internal design, mural decoration, and the analysis and construction of pattern.—Prof. Traquair.

*Reference Books:*—Vitraux, Merson; Windows, Day.

## C.—History.

13. General History. History 1 of the course in Arts. For particulars of this course, see page 173.

14. Ancient and Classical Architecture (48 lectures).

The architecture of the ancient Egyptians, Chaldæans, Assyrians and Persians; the Minoan civilization; architecture of the Dorian and Ionian Greeks, with special attention to the refinement of form in Hellenic art; the architecture of Rome and Byzantium to the fall of the Byzantine Empire.—Prof. Traquair.

*Text-books:*—Banister Fletcher's History of Architecture; Anderson and Spier's Architecture of Greece and Rome.

15. Mediæval Architecture (48 lectures).

The rise of the Romanesque schools, from the decline of the Western Roman Empire to the XI. century; the evolution of ecclesiastical architecture in France and England to 1500 A.D.; the Gothic schools of Europe and the evolution of military and civil architecture. Prof. Traquair.

*Text-book:*—Power's Mediæval Architecture.

16. Renaissance Architecture (48 lectures).

The beginning of the Renaissance in Italy and its influence on architecture from 1400 A.D. to 1600 A.D.; the Renaissance in France from Francis I. to the Revolution; the earlier and later phases of the Renaissance in England and English architecture during the XVIII. century.—Prof. Traquair.

*Text-books:*—Anderson's Italian Renaissance Architecture; W. H. Ward's French Renaissance Architecture; R. Blomfield's Short History of Renaissance Architecture in England.

17. Modern Architecture (48 lectures).

The end of the Renaissance and the classic revival in England; scholarly architecture; the "Gothic Revival"; the influence of Pugin, Ruskin and Morris; the "Arts and Crafts" movement; the eclectic schools; Shaw and the free classicists; the progress of art in Europe during the XIX century; the classic schools and "official" architecture; the neo-grec movement in France; the national revivals, the secession and art nouveau; the colonial architecture of North America, Spanish, French and English; the modern schools and the present position.—Prof. Traquair.

## D.—Science.

Mathematics 192, 193, 194. Algebra (for the first term only). Trigonometry and Mechanics. For full particulars, see page 270.

44 and 45. Physics and Laboratory (48 lectures and 24 periods).

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing the laws of energy, heat, light, electricity and sound. Dr. Eve.

346, 347 and 348. SURVEYING. (Full course: 4 weeks field school, 48 lectures and 24 draughting periods, see pages 243 and 290.)

22 and 23. HYGIENE OF BUILDINGS (24 lectures in first term, 12 lectures and working out of one graphical problem in second term).

22. Light and air, water, sanitary plumbing, sewage disposal. First term.—Dr. Starkey.

23. The heating and ventilation of buildings. Second term.—Prof. McKergow.

## E.—Construction.

The Second Year work covers the ordinary building trades and detailing where calculations of a complicated kind are not involved. The Third Year work deals with structural problems involving calculation, while in the Fourth Year problems in structural design are worked out.

24 and 25. BUILDING CONSTRUCTION AND BUILDING DETAIL (24 lectures, 48 draughting periods).

Building materials, brickwork, masonry, carpentry, roofing, etc.; joinery of doors, windows, etc., and the finishing trades, such as plastering, painting and plumbing; underpinning, shoring, centering and forms. General working drawings are prepared, and building works in progress are visited.—Mr. Turner.

26 and 27. ARCHITECTURAL ENGINEERING I and ARCHITECTURAL ENGINEERING (Draughting) I (48 lectures and 24 draughting periods). Graphical methods of calculating and the strength of materials employed in construction.—Mr. Thomson.

28 and 29. ARCHITECTURAL ENGINEERING II A AND ARCHITECTURAL ENGINEERING (Draughting) II A (24 lectures and 48 draughting periods).

Theory and practice of reinforced concrete; foundations and retaining walls.—Mr. Thomson.

30 and 31. ARCHITECTURAL ENGINEERING II B AND ARCHITECTURAL ENGINEERING (Draughting) II B (24 lectures and 48 draughting periods).

Rivets and riveting, symmetrical and eccentric connections; the design of structural steel, with examples of floors, columns, beams, office buildings and plate girders; the theory of arch action with especial reference to examples in masonry.—Mr. Thomson.

Architectural Engineering II A, with Architectural Engineering II B, with the draughting periods allotted to each, will be taken until further notice by the Third and Fourth Years together, and are given in alternate years.

## F.—Architectural Practice.

131. English Composition (24 lectures with exercises).

Instruction is provided with the Applied Science First Year classes. (See page 267)—Prof. Latham.

32. Professional Practice (24 lectures with exercises).

Structure of specifications and general clauses; specifications for all trades; conditions of contract; agreements; building by-laws; estimates; reports; professional ethics.—Mr. Turner.

175. Engineering Law (24 lectures).

Instruction is provided with the Applied Science Fourth Year classes. (See page 270.)

## G.—Drawing.

33, 34, 35, and 36, Architectural Drawing (100 periods of three and four hours).

The work in this course is in direct connection with the lectures in History and Architecture.

33. Drawings of the Classic orders, showing their application to other elements in architectural design, are prepared from the large models in the museum and from documents.—Mr. Carless.

34. Drawing of the Greek orders are prepared with special reference to their structural development and design. Classic buildings are studied from documents in connection with the lectures on Classic Architecture.—Prof. Traquair.

35. In connection with the lectures on Mediæval Architecture, sketch plans, elevations and details of important mediæval buildings are set up from documents.—Prof. Traquair.

36. In connection with the lectures on the Architecture of the Renaissance, important buildings are studied by drawing and sketching. —Prof. Traquair.

37. Historical Drawing. The advance study of one or more historical buildings by means of large scale drawings.—Prof. Traquair.

38, 39, 40, 41. Freehand Drawing (100 periods).

Drawing in pencil or charcoal from casts of architectural ornament architectural fragments and parts of the figure.—Mr. Dyonnet.

18. Architectural Geometry I (24 lectures and 24 periods).

Descriptive geometry; isometric and axometric projection; shades and shadows; developed surfaces and intersection of solids.—Mr. Carless.

19. Architectural Geowetry II (24 lectures and 24 periods).

The practical application of descriptive geometry to masonry and joinery; perspective; the rendering of perspective drawings.—Mr. Carless.

42 and 43. Modelling (one period a week of two hours, extended over the Fourth and Fifth Years).

The student first studies form directly from nature, and later on conventionalizes the forms with which he has become familiar for decorative purposes. The Architectural museum affords many examples from different periods of the adaptation and abstraction of natural motifs in ornament. They are used to show the spirit in which to work out ornament, and are not copied directly. Models of design on which the students are engaged are also prepared, and casting is taught.—Mr. Dyonnet.

46, 47, 48, 49. An essay on an historical or theoretical subject is required from all students excepting those of the First Year. This essay is to be prepared during the session.

50. SUMMER WORK.

A, B & C. During the vacation following the close of the First, Second and Third Years, the students in Architecture are required to read and be prepared to pass an examination on a selected theoretical, æsthetical, or historical architectural work, and in addition to this, to spend at least five weeks in the office of some architect or contractor; the period of such employment to be certified by a letter from the employer. Students who for any reason approved by the Head of the Department find it impracticable to do office work, may submit thirty-five reasonably large free-hand sketches, rendered in any desired medium as an equivalent.

A summer school in surveying is taken in the four weeks following the final examinations of the First Year.

D & E. A summer school in sketching and measuring is attended by all students between the Second and Third and between the Third and Fourth Years, in the latter part of September, for the study of buildings in Canada and in the United States.

For summer reading, see pages 244 to 247.

## DEPARTMENT OF CHEMISTRY.

DIRECTOR:—R. F. RUTTAN.
PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.
PROFESSOR OF PHYSICAL CHEMISTRY:—OTTO MAASS.
PROFESSOR OF ORGANIC CHEMISTRY:—G. S. WHITBY.
ASSOCIATE PROFESSOR:—NEVIL NORTON EVANS.
ASSISTANT PROFESSORS:—A. R. M. McLEAN. W. H. HATCHER.
DEMONSTRATORS:—W. W. THOMSON. A. CAMBRON. G. W. HOLDEN. P. LAROSE. R. S. JANE. K. W. HUNTEN. C. SIVERTZ. E. W. R. STEACIE. F. H. YORSTON.

### Second Year Lectures.

51. GENERAL CHEMISTRY. The course includes the history, occurrence, properties and methods of preparation of the most important elements and compounds, with their industrial applications; classification; general laws and principles; and the fundamental theories of the science; together with a brief discussion of scientific method. Three hours a week for all students in Engineering.—Prof. Evans.

*Text-book:*—Macpherson and Henderson, General Chemistry.

54. INORGANIC QUALITATIVE ANALYSIS. A course dealing with the principles of analytical chemistry—nature of solutions, precipitation, etc., explanatory of the work done in the laboratory (course 55). Five lectures a week for the first three weeks of the summer session.—Prof. Evans.

*Text-book:*—N. N. Evans, Notes on the Theory of Qualitative Analysis. *Reference:*—Stieglitz, Qualitative Chemical Analysis.

### Second Year Laboratory.

52. GENERAL CHEMISTRY LABORATORY. Practical work designed to accompany and illustrate the lectures of course 51. The course includes the construction and use of ordinary apparatus, the preparation and study of important elements and compounds, qualitative analysis, and simple quantitative determinations, both gravimetric and volumetric, including combining weights, standardization of solutions, hardness of

water, etc. One period for all students of Engineering.—Professor Evans and Messrs. Thomson and Steacie.

55. Inorganic Qualitative Analysis Laboratory.

A course of laboratory work, including preliminary experiments on known substances, the examination of unknown mixtures for base and acid radicals, methods of bringing substances into solution, and a study of the chemical reaction involved in these processes. Four weeks in the Summer School for students of the Chemical and Metallurgical Engineering courses.—Professor Evans and Mr. Hunten.

*Text-book:*—W. A. Noyes, Qualitative Analysis.

**Third Year Lectures.**

56. Organic Chemistry. (Arts 2.) A course in general elementary organic chemistry. Three lectures a week during the first term and two during the second term.—Dr. Ruttan.

*Text-books:*—Perkin and Kipping's *or* Remsen's Organic Chemistry.

58. Physical Chemistry. (Arts 4.) An introductory course following the development of chemical theory, including vapour densities, molecular weights, the mass law and the phase rule.

Two leectures a week during the first term and one per week in second term.—Dr. Maass.

*Text-book:*—Theoretical and Physical Chemistry, Bigelow.

59. Inorganic Qualitative Analysis. A course explanatory of the work done in the laboratory. One leecture a week in the first term for Mining Engineers only.—Professor Evans and Mr. Hunten.

*Text-book:*—N. N. Evans, Notes on the Theory of Qualitative Analysis.

61. Inorganic Quantitative Analysis. A course on the general principles involved in quantitative analysis. One lecture a week during the first term of the Third Year.—Dr. Johnson.

*Text-book:*—Cumming and Kay. *For reference:*—Treadwell's Quantitative Analysis.

**Third Year Laboratory.**

57. Organic Chemistry. (Arts 2.) A course on the preparation, detection and analysis of the commoner organic compounds. Two periods a week, in the second term. Drs. McLean and Whitby, with Messrs. Cambron, Hunten and Jane.

*Text-book:*—Norris' Experimental Organic.

60. Inorganic Qualitative Analysis. A course adapted to the requirements of Mining Engineers. Two periods a week in the first term. Professor Evans with Mr. Hunten.

*Text-book:*—W. A. Noyes, Qualitative Analysis.

62. Inorganic Quantative Analysis. (Arts 8.) An extensive course on gravimetric and volumetric method. Three periods per week for Chemical Engineers (Course II.).—Dr. Johnson and Messrs. Larose, Sivertz and Steacie.

*Text-book:*—Cunningham and Kay, Quantitative Analysis.

**Fourth Year Lectures and Laboratory.**

73. Food Chemistry. (Arts 13.) A course on the constitution and analysis of proteins, carbohydrates, fats and allied substances. The course also includes the estimation of food values, enzyme action. A course of one lecture per week and two laboratory periods during the second term. The laboratory work comprises the study of typical foodstuffs, enzyme action and includes the use of the calorimeter, polariscope and refractometer in organic analysis.—Dr. Ruttan, Dr. Whitby, Dr. MacLean, Mr. Hunten, Mr. Cambron and Mr. Jane.

*Text-book:*—Woodman's Food Analysis.

64. Advanced Organic Chemistry. (Arts 5.) The lectures will deal with the more complicated classes of carbon compounds, such as the carbohydrates, terpenes and alkaloids; the more complicated types of reaction, such as the Grignard reaction, the Claisen reaction, the reaction of aliphatic and hydroaromatic diketones; various theoretical conceptions such as geometrical isomerism, partial valency, the strain theory. Two lectures per week.—Dr. Whitby.

*Text-books:* — Perkin and Kipping's Organic Chemistry and Moureu's Organic Chemistry. *For reference:*—Recent Advances in Organic Chemistry, Stewart; Advanced Organic Chemistry, Cohen; Organic Chemistry of Nitrogen, Sidgewick.

65. Advanced Organic Laboratory. (Arts 5.) The course will comprise the preparation of a number of representative organic compounds of a more complicated nature than those prepared in the Third Year, including dyes, nitro derivatives and examples of reaction, such as Perkin's, Friedel and Craft's, Skraup's and Grignard's. It will also comprise the quantitaive determination of the elements and of typical groups in organic compounds; and also the identification of unknown organic substances. Four periods a week in the first term and two in the second.—Drs. Whitby and MacLean and Messrs Cambron, Jane and Hunten.

The student is required during this course to take a complete course in gas analysis under Dr. Johnson.

66. Physical Chemistry. (Arts 7.) Two lectures a week on general physical chemistry, including the kinetic theory, thermo-chemistry, electron theory in chemistry, chemistry of radioactive substances, etc.

Students will be required to work problems dealing with the subject matter of the lectures.

Two laboratory periods a week in the second term are devoted to typical physico-chemical measurements and methods of analysis.—Dr. Maass and Dr. Waldbauer.

*Text-books:*—Washburn's Principles of Physical Chemistry; Findlay's Physico Chemical Measurements.

*For reference:*—Ramsay's Text-books of Physical Chemistry; Lewis and Randall, Thermo-dynamics.

67. Inorganic Laboratory. (Arts 8.) The lectures deal with the special methods of analysis of iron and steel, alloys and water. One lecture and three periods a week in the first term and four periods in the second.—Dr. Johnson and Messrs. Larose, Sivertz and Steacie.

The laboratory work is a continuation of courses 61 and 62. A course in gas analysis is given in the second term, as well as studies in colloid chemistry and some advanced inorganic preparations.

*For reference:*—Lord and Demorest, Quantitative Analysis; Treadwell's Quantitative Analysis; Blair, Chemical Analysis of Iron; Ibbotson, Analysis of Steel Works Materials.

68. Industrial Chemistry, Inorganic. (Arts 14.) A course, both theoretical and descriptive, on the more important inorganic chemical industries. Two lectures per week in the first term. Special lectures are given in this course by chemical engineers from outside the University.—Dr. Johnson.

69. Industrial Chemistry, Organic. (Arts 15.) This course is given during the second half of the session, and includes the chemistry of paper and pulp, sugar, starch and glucose, soap and fats, distillation of wood and the purification of the products, etc. Two lectures per week in the second term. This course is given by Dr. Johnson, with special lectures by chemical engineers from the city and district who are specialists in one or other of the industries.

70. Applied Electro-Chemistry. (Arts 12.) The laws of electrolysis and of solutions are studied from the standpoint of the osmotic theory. Primary and secondary batteries, electro-plating, polarization and the preparation and electro-chemical behaviour of the rarer elements used in incandescent lamps are discussed. The more important technical processes are studied and typical substances prepared in the laboratory. Two lectures in the first term.—Dr. Maass.

*For reference:*—Allmond, Applied Electro-chemistry; Blount, Practical Electro-chemistry.

71. Inorganic Quantitative Analysis. A laboratory course specially designed for Mining Engineers. Four periods a week in the first term.—Dr. Johnson and Messrs. Larose, Sivertz and Steacie.

*Text-book:*—Lord and Demorest, Quantitative Analysis. *For reference:*—Olsen's Quantitative Analysis.

72. Advanced Inorganic Chemistry. (Arts 6.) A course of lectures on inorganic chemistry, discussing the elements and their compounds in accordance with the general principles of physical chemistry.

Two lectures a week throughout the session.—Dr. Johnson.

74. History of Chemistry. (Arts 9.) A short course dealing with the development of chemistry from the historical standpoint. One lecture a week in the second term.—Dr. Hatcher.

75. Colloid Chemistry. (Arts 16.) Two lectures per week and a total of ten laboratory periods in the second term.—Dr. Johnson.

## DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS.

Professors:—H. M. Mackay. E. Brown. R. de L. French.

Associate Professors:—H. M. Lamb. ————.

Lecturers:—R. E. Jamieson. G. J. Dodd.

Assistant in Charge of Testing Laroratory:—S. D. MacNab.

Demonstrator:—A. Campbell.

### Second Year.

81. Materials of Construction. Manufacture and properties of cast iron, wrought iron, crucible, bessemer and open hearth steel; principal alloys; considerations governing selections of materials; manufacture and properties of Portland and natural cements; limes; concrete; principal kinds of timber used for engineering purposes; preservation of timber; discussion of standard specifications.

Required of all engineering students. One hour per week.—Prof. Mackay and Mr. Sproule.

*Text-book:*—Moore, Materials of Engineering.

83. Mechanics. The general principles of statics and of the dynamics of a particle are developed in the lectures, and numerous examples illustrating the application of mechanics to engineering problems are worked out.

The course includes equilibrium of forces; friction; force and funicular polygons; bending moment and shear; forces in framed structures; hydrostatics; relative velocity; variable motion (straight line and curvilinear); simple harmonic motion; pendulums, springs; inertia forces in machines; crank effort curves; flywheels, etc.

The mathematical courses in calculus are taken concurrently and calculus methods are used freely. Two lectures and two hours problems per week.—Prof. Brown, Prof. Lamb and Mr. Jamieson.

*Reference books:*—Morley, Mechanics for Engineers; Poorman, Applied Mechanics; Fuller and Johnston, Applied Mechanics, Vol. I.

**Third Year.**

86. MECHANICS. The work of the Second Year course in mechanics is extended, and the dynamical equations for the motion of a rigid body in two dimensions are deduced. Numerous examples are worked in detail, including problems on fly-wheels, kinetic energy of bodies having translation and rotation, oscillation of a rigid body about a fixed axis, impulse, etc. The elementary principles of the gyroscope are considered. Two lectures per week, first term.—Prof. Brown and Assistants.

*Reference book:*—Worthington, Dynamics of Rotation.

87. STRENGTH OF MATERIALS. This course deals with the fundamental principles of the strength of materials. It includes the following:—Stress, strain, resilience, and the elastic properties of materials used in construction; bending moment and shearing force diagrams; strength, curvature, and deflection of beams; continuous beams; cantilever beams and the like; simple problems on rolling loads; reinforced concrete beams; the strength of shafting; spiral springs; columns; bending combined with tension or compression; elementary consideration of compound stresses; distribution of shearing stress on various sections, etc.

Required of all Engineering students. Two lectures per week during the session.—Professors Brown, ——— and Lamb.

*Text-book:*—Morley, Strength of Materials.

88. STRENGTH OF MATERIALS LABORATORY. The work illustrates the principles of the lecture course in strength of materials (87), and includes the following:—Tension tests of various materials; stress-strain diagrams by automatic recorders and by extensometers and scales; deflection of beams, torsion of shafts; experiments on spiral springs and torsional oscillations of wires; the moment of inertia of fly-wheels; determination of Young's modulus; test of Portland cement; demonstrations on the large testing machines, on the breaking of timber and reinforced concrete beams and small columns, the compressive strength of concrete, bricks, mortars, etc. Three hours per week, second term. —Prof. Brown, Mr. Jamieson, Mr. Eadie.

89. FOUNDATIONS AND MASONRY. Borings; bearing power of soils; piles and pile driving; concrete piles; footings; grillages, underpinning; foundations under water, cofferdam, open dredging, pneumatic and freezing processes; estimation of quantities from drawings; estimates of costs.

Required of Civil Engineering students. One lecture per week session; three hours problems per week, second term. Prof. Mackay, Mr. Dodd.

*Text-book:*—Foundations of Bridges and Buildings, Jacoby and Davis.

90. STRUCTURAL ENGINEERING. Problems in the design of beams, plate girders, columns, roof trusses, knee bracing, etc.; working drawings; estimates of quantities. Required of students in Courses II, III, V, VI and VII. One lecture and three hours problems per week, second term.—Prof. Lamb and Mr. Jamieson.

*Reference books:*—Ketchum's Structural Engineer's Handbook; Ketchum's Mill Buildings; Bishop's Structural Drafting and Design of Details; Carnegie, Pocket Companion.

91. MILL BUILDINGS. The design and construction of mill buildings; purpose and arrangement of plant, layout of buildings, loads; steel framed buildings; design of roof-trusses, beams and columns, details and shop-drawings; reinforced concrete buildings, design of slabs, beams and columns, types of reinforcement, forms, methods of construction, estimate of quantities and of costs; wood framed buildings; foundations, steel grillages, reinforced concrete spread foundations.

Required of Fourth Year Mechanical Engineering students.—One lecture and two hours problems per week, first term.—Prof. Lamb.

*Reference books:*—Ketchum, Steel Mill Buildings; Tyrell, Mill Buildings; Hool, Reinforced Concrete Construction.

92. RAILWAY ENGINEERING. The locomotive and its work; locomotive and grade problems; effect of distance, rise and fall and curvature on train mile costs; estimate of probable receipts and expenditures; economics of location, reconnaissance, preliminary, and location surveys; turnouts. Required of Civil Engineering students. Two hours per week, first term.—Prof. Lamb.

93. RAILWAY ENGINEERING. The proper location of a railway, map, profile, earthwork, mass diagram, overhaul, velocity profile, bill of material and cost estimate of same; detailing of switches and complicated lay-outs and bill of track material. Required of Civil Engineering students. Six hours per week, first term.—Prof. Lamb.

97. HYDRAULICS. The fundamental principles of hydraulics are considered and applied to problems on the discharge of orifices, notches, weirs, pipes and open channels under varying conditions. The theory of impact of jets and its application to turbines is also dealt with. Required of Civil Engineernig students in the Third Year and of Mechanical and Electrical Engineering students of the Fourth Year. Two hours per week, first term.—Prof. Brown.

*Text-book:*—Hydraulics and Its Application, Gibson.

98. HYDRAULIC LABORATORY. The course is illustrative of the principles considered in course 97, and is taken concurrectly. The work

includes the following experiments:—Measurement of discharge from orifices, notches and pipes, both straight and bent, to determine hydraulic coefficients; pressure of jets impinging on vanes; tests of Venturi meter, hydraulic ram, Pelton wheel, Girad impulse turbine, etc. Three hours per week, first term.—Prof. Brown and Staff.

82. SANITARY SCIENCE. Basic principles of sanitation underlying the design of works for water supply, sewerage, the heating, lighting and ventilation of buildings, etc. Alternative with Map Projections 351. Four hours per week, first term.—Dr. Starkey.

85. HIGHWAY ENGINEERING. Vehicular traffic and its requirements; methods of financing; economics of location; surveys; distance, grade and curvature; drinage; earthwork; paving materials, manufacture and use; maintenance; bridges, culverts, sidewalks and other accessories; designs and estimates. Alternative with 92. Two lectures and six hours laboratory per week, second term.—Prof. French.

*Text-book:*—Agg's Construction of Roads and Pavements.

**Fourth Year.**

94. THEORY OF STRUCTURES. The analysis of statically determinate framed structures under fixed and moving loads; distortion of framed structures; swing spans; braced arches and arched ribs with two and three hinges; hingeless arches in concrete and reinforced concrete; frames with redundant members.

Required of Civil Engineernig students. One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term.—Prof. Mackay, Mr. Jamieson.

*Reference books:*—Johnson, Bryan and Tunreaure's Modern Framed Structures.

95. STRENGTH OF MATERIALS. The course includes the following:—The bending and deflection of beams loaded and supported in any manner; deflection due to shear; principle of work applied to deflection of beams, and statically indeterminate problems; bending of curved bars, and of unsymmetrical sections; elastic strains; relation between elastic constants; strength of thick shells; earthwork theories; the design of floor and column systems for reinforced concrete buildings (including a critical study of standard specifications); retaining walls, etc.

Required of Civil Engineering students. Two lectures per week during the first term, and one per week during second term, with the equivalent of one-half laboratory period per week throughout the session at times appropriate to the progress of the course.—Prof. Brown.

*Text-books:*—Strength of Materials, Morley; Reinforced Concrete, Taylor and Thompson, or Reinforced Concrete Construction, Vols. II and III, Hool, or Reinforced Concrete Handbook, Hool and Johnson.

96. Bridge Design. The reason governing the selection of a particular type of bridge, discussion of the loads to which the bridge will be subjected, calculation of the stress in the several members; determination of the section areas and forms of the members; design of the connections; preparation of complete drawings.

Required of students in Civil Engineering. Two lectures and six hours drafting per week.—Prof. Mackay and Mr. Dodd.

*Reference books:*—Kirkham's Structural Engineering; Ketchum's Structural Engineer's Handbook; Waddell's Bridge Engineering.

96a. Bridge Design. A slightly briefer course than 96. Required of students taking the Municipal alternative.—Prof. Mackay and Mr. Dodd.

99. Hydraulic Machines. The course deals mainly with the development of the modern turbine and centrifugal pump and includes the following general topics:—Application of the principles of hydraulics in explanation of the functions of the various parts of the machines; special problems encountered under different conditions; characteristics of different types and method of interpreting results of tests on small models; essential features and mechanical details of typical turbines and pumps; principal hydraulic formulæ underlying design; the hydraulic accumulator; inertia effects in reciprocating machines, etc. Two hours per week, second term.—Prof. Brown.

*Reference books:*—Hydraulics and Its Applications, Gibson; Water Power Engineering, Mead; Proceedings of Engineernig Societies.

100. Hydraulics and Laboratory. A short course embodying the hydraulic principles outlined under courses 97 and 98 will be given in the first term. There will be one lecture per week, and six or more laboratory periods at hours to be arranged. Required of Mining Metallurgical and Chemical Engineering students of the Fourth Year.

*Text-book:*—Hydraulics, King and Wisler.

101. Municipal Engineering. Fundamental principles of water supply, sewerage, sewage disposal, highway engineering and the treatment of garbage and rubbish. Required of Civil Engineering students not taking Municipal alternative. Two lectures per week session; three hours problems per week, second term.—Prof. French.

*Text-books:*—Turneaure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

102. Water Supply and Sewerage.

(a) *Water Supply.* Quantity, quality and pressure; rainfall and evaporation; run-off, pumping machinery; storage; dams, aqueducts, distribution systems, etc.; appurtenances; purification systems; fire service; construction materials and methods; designs and estimates.

(b) *Sewerage.* Quantity of sanitary sewage and of storm water; sewerage mains and appurtenances; construction methods and materials; designs and estimates.

(c) *Sewage Disposal.* Characteristics of sewage; disposal by dilution; screening and sedimentation; sludge; bacterial methods; costs and results; designs and estimates. Required of students taking Municipal alternative. Three lectures and six hours problems per week.—Prof. French.

*Text-books:*—Turneaure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

103. WASTE DISPOSAL. Characteristics of civic wastes; garbage, rubbish and ashes; disposal methods, dumping, land treatment, incineration, reduction; economic aspects; designs and estimates. Required of students taking Municipal alternative. One hour per week, first term. —Prof. French.

*Text-book:*—Hering and Greeeley's "Collection and Disposal of Municipal Refuse.

104. CIVIC ADMINISTRATION. This course is designed to emphasize the connection between the work of the municipal engineer and other civic activities. Such subjects as civic government and finance, education, reaction and charities and correction are discussed, as well as town planning and other engineering work of minor importance not covered in other courses. Required of students taking Municipal alternative. One hour per week, first term.—Prof. French.

*Text-book:*—No regular text-books are prescribed, but free use is made of various government bulletins and of current periodical literature.

## DEPARTMENT OF DESCRIPTIVE GEOMETRY AND FREEHAND DRAWING.

ASSOCIATE PROFESSOR:—HENRY F. ARMSTRONG.

DEMONSTRATORS:— J. R. WINDSOR. W. EVANS, J. F. KELLY.

This Department provides a general course in drafting office methods and a training in the groundwork necessary to prepare the student for the work required in the Engineering courses of the Third and Fourth Years. The accurate use of drawing instruments is practised and study is made of the various projection methods commonly employed. The problems in Descriptive Geometry are especially designed to develop the power of mentally picturing unseen objects and grasping groups of details.

### First Year.

341. DESCRIPTIVE GEOMETRY. Geometrical methods; plane figures; areas; paths of points moving in planes, etc.; projections of points, lines, plane figures and solid objects; shadows, etc.

Three hours per week—Prof. Armstrong.

*Text-books:*—Geometrical Drawing, by H. F. Armstrong; Descriptive Geometry, by H. F. Armstrong.

342. FREEHAND DRAWING. The object of this course is to train the eye to observe and the hand to record the essential characteristics and proportions of objects by means of sketches and diagrams of machines, etc., and to prepare dimensioned sketches from which to make scale drawings.

One hour and a half per week.—Prof. Armstrong.

343. LETTERING. Types and titles such as are chiefly in use in drafting offices, including single-line, block and Roman lettering, and stencils .

One hour and a half per week.—Prof. Armstrong.

**Second Year.**

345. DESCRIPTIVE GEOMETRY AND PERSPECTIVE. Intersections of surfaces; interesecting planes; tangent planes; axometric, including isometric projections; perspective projection.

Three hours per week.—Professor Armstrong.

*Text-book:*—Descriptive Geometry, Henry F. Armstrong.

## DEPARTMENT OF ELECTRICAL ENGINEERING.

PROFESSOR:—L. A. HERDT.

ASSOCIATE PROFESSOR:—C. V. CHRISTIE.

ASSISTANT PROFESSORS:— E. G. BURR. G. A. WALLACE.

DOMONSTRATORS:— W. SCHIPPEL. C. G. GLIDDON.

111. ELEMENTS OF ELECTRICAL ENGINEERING, for Third Year students in Mechanical Engineering and Fourth Year students in Chemical, Civil, Metallurgical and Mining Engineering.

A general course in electrical engineering, treating of the laws of electro-magnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery; the fundamental principles of electric lighting, power distribution and electric traction. Two hours per week.—Mr. Wallace.

111a. A shorter course similar to above for students in Mining. One hour per week.—Mr. Wallace.

*Text-book:*—Gray's Principles and Practice of Electrical Engineering.

112. ELECTRICAL ENGINEERING LABORATORY, for Third Year students in Mechanical Engineering and Fourth Year students in Chemical, Civil, Metallurgical and Mining Engineering.

Includes tests of direct current metering and controlling devices, dynamos, motors, boosters, motor generators and constant current machines; experiments of variable current flow in circuits; tests of alternators, synchronous motors and converters, induction motors and transformers, etc. Three hours per week.—Mr. Schippel, Mr. Gliddon.

112a. A shorter course similar to above for students in Mining. One period per week for one term.—Mr. Wallace.

**Third Year.**

113. ELECTRICAL ENGINEERING. The theoretical consideration of current flow in circuits; the laws of electro-magnetism and of the magnetic circuit; the theory and operating characteristics of direct current machinery; the principles of alternating current machinery. Required of students in Electrical Engineering. Four hours per week. —Prof. Christie.

*Text-book:*—Christie's Electrical Engineering.

114. ELECTRICAL ENGINEERING LABORATORY. Preparation of reports; construction, handling and protection of electrical apparatus; use of instruments and precision of measurements; predetermination of the characteristics of electrical machinery; special and shop testing.

Tests are made in the Laboratory on:—Current flow in circuits; metering and controlling devices, generators, motors, boosters, balancers and motor generator sets; arc and incandescent lamps; reflectors. These tests are intended to illustrate the principles of action and the limits of the proper use of the apparatus. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, six hours per week. Problems, two hours per week.—Prof. Burr, Mr. Schippel, Mr. Gliddon.

**Fourth Year.**

117. ELECTRICAL ENGINEERING. The treatment of alternating current circuits by vector diagrams and vector equations; the theory and operating characteristics of alternating current machinery. Required of students in Electrical Engineering. Three hours per week.—Prof. Christie.

*Text-book:*—Christie's Electrical Engineering.

118. ELECTRICAL ENGINEERING LABORATORY. Tests are made in the laboratory on alternators, synchronous motors and converters, compensators, induction motors, transformers, frequency and phase changing apparatus, potential regulators, rectifiers, etc. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, nine hours per week.—Dr. Herdt and Mr. Wallace.

120. Electric Lighting and Power Distribution. The design and operation of power plants and substations. Transmission and distribution systems are taken up under the following heads:—Selection of generators, transformers, switches and auxiliary apparatus with a study of their characteristics and limitations; wiring diagrams and switchboard design; line design and construction, selection of towers, insulators and conductors, calculation of sags and spans; high voltage and transient phenomena; the protection of overhead lines, cable systems and station apparatus; industrial applications of electrical apparatus; financial considerations. This subject is required of students in Electrical Engineering. Two hours per week, first term.—Dr. Herdt.

*Text-book:*—Standard Handbook for Electrical Engineers.

121. Electric Traction. Urban, interurban and main line electrification is taken up under the following heads:—Choice of system and apparatus; calculation of motor rating and car equipment; overhead and track construction; methods of control, braking and regeneration; storage batteries and boosters; generating stations and substations, distribution systems, power supply.

This subject is required of students in Electrical Engineering. Two hours per week, second term.—Dr. Herdt.

*Text-book:*—Standard Handbook for Electrical Engineers.

122. Electrical Design. The electrical design of direct and alternating current machinery. Special aattention is paid to the limitations of the different types of machines and to the preparation of specifications. Required of students in Electrical Engineering. Lectures, two hours per week. Problem work, three hours per week.—Prof. Christie.

*Text-book:*—Gray's Electrical Machine Design.

123. Applications of Electricity. Lectures on industrial and general applications of electric power, the electrical supply systems for industrial power and lighting; special problems of plant design; special problems of lighting in electrical systems; special problems of electrical transmission; electrolysis mitigation for electric railways. Lectures, one hour per week, first term, and three hours per week, second term. —Mr. Burr.

124. Electrical Photometry and Illumination. Electric light production; photometry; illumination; principles of interior and street illumination. First term. Lectures, two hours per week. Drafting room, two hours pre week.—Prof. Burr.

## ENGLISH.

ASSOCIATE PROFESSOR:—G. W. LATHAM.

131. ENGLISH COMPOSITION. In view of the importance of accuracy of expression for those engaged in scientific or professional work, a course in English composition is prescribed for all undergraduates of the First Year. Students will be assigned to a section which will meet twice a week for practice and instruction in composition, and in addition will be called upon from time to time for individual conferences with the instructor.

Students coming to McGill from schools or colleges where an equivalent amount of English instruction is given may apply for exemption from the above course. Applications for such exemption should be addressed to the Dean of the Faculty of Applied Science not later than September 15th, and should be accompanied by certificates of standing and a certified syllabus of the course taken. Students who consider themselves qualified for exemption but cannot produce satisfactory certificates as above, may come up for a special exemption examination to be held on Saturday, October 4th, 1924, at 2 p.m. Candidates who present themselves for this examination should be thoroughly prepared in Aydelotte's English and Engineering, Sections VII and XVII inclusive.

In connection with this course the following text-books will be used:—Lomer and Ashmun's The Study and Practice of Writing English (Houghton Mifflin); Aydelotte's English and Engineering, 1923 Edition (McGraw Hill Publishing Co.).

132. SUMMER READING. Second Year. (See page 244.)

133. SUMMER READING OR ESSAY. Third Year. (See page 245.)

134. SUMMER READING. Fourth Year. (See page 246.)

## DEPARTMENT OF GEOLOGY AND MINERALOGY.

PROFESSOR:—J. AUSTEN BANCROFT.

ASSOCIATE PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM.

ASSISTANT PROFESSOR OF GEOLOGY:—JOHN J. O'NEILL.

ASSISTANT PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.

LEROY FELLOW IN GEOLOGY:—H. S. WILSON.

### Third Year.

141. GENERAL GEOLOGY. (Arts 1.) The lectures will embrace a general survey of the whole field of geology and will be introduced by a short course on mineralogy. Especial attention will be devoted to dynamical geology and to historical geology, including a description of the fauna and flora of the earth during the successive periods of its past history, as well as to the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides. In addition to the lectures there will be a demonstration each week.—Dr. Bancroft.

*Text-book:*—Cleland, Geology, Physical and Historical.

142. MINERALOGY. (Arts 5.) The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc., and the principles of classification.—Prof. Graham.

143. DETERMINATIVE MINERALOGY. (Arts 6.) Laboratory practice in blow-pipe analysis and its application to the determination of mineral species.—Prof. Graham.

**Fourth Year.**

146. PETROGRAPHY. (Arts 10.) The modern methods of study employed in petrography are first described, and the classification and description of rocks is then taken up.

In addition to the lectures, one afternoon a week during the second term will be devoted to practical work in the petrographical laboratory. —Prof. Graham.

147. ADVANCED PETROGRAPHY. (Arts 11.) This is a more advanced course than 146. In addition to the lectures, an afternoon throughout the year will be devoted to practical work in the petrographical laboratory.—Professors Bancroft, Graham and O'Neill.

*Text-book:*—Harker's Petrology for Students.

The petrographical laboratory is open to Fourth Year Mining students.

148. ORE DEPOSITS AND ECONOMIC GEOLOGY. (Arts 7 and 8.) The nature, mode of occurrence and classification of ore deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed. The more important non-metallic materials, *e.g.*, fuels, clays, building stones, etc., will be similarly treated, as well as questions of water supply, artesian wells, etc. The structure of the earth's crust, more especially with reference to folding, faulting and igneous intrusion in their bearing upon mining, will then be considered, and the course will close with a discussion of the methods employed in carrying out geological and magnetic surveys and in the construction and interpretation of geological maps and sections.—Dr. Bancroft.

*Books of Reference:*—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Lindgren, Mineral Deposits; Leith, Economic Aspects of Geology; the Reports of the

Geological Survey of Canada, and the Publications of the U. S. Geological Survey.

149. GEOLOGY OF CANADA. (Arts 3.) A general description of the geology and mineral resources of the Dominion.—Dr. Bancroft.

151. OPTICAL MINERALOGY AND CRYSTALLOGRAPHY. (Arts 9.) A short course of lectures for students in chemistry, with laboratory practice in the measurement and drawing of crystals; calculation of axial ratios, etc.; use of the polarising microscope, axial angle apparatus, etc. —Prof. Graham.

152. HISTORICAL GEOLOGY. (Arts 4.) This is a continuation of course 141, and will consist of lectures, colloquia and museum work extending throughout the session.

153. FIELD WORK. The students in mining will receive a course of instruction in geological mapping and field work, extending over one week—in connection with the summer school of mining.—Dr. Bancroft and Prof. Graham.

NOTE.—Students of the Mining, Metallurgy and Chemistry courses take all the mineralogy of the Third Year. Chemistry students may, in addition, take the mineralogy of the Fourth Year No. 151.

## LAW AND ECONOMICS.

ASSOCIATE PROFESSOR OF ECONOMICS:—J. P. DAY.

ASSISTANT PROFESSOR OF ECONOMICS:—J. C. FARTHING.

LECTURER ON ECONOMICS:—F. B. BROWN.

LECTURER ON LAW:—J. W. WELDON.

171. ELEMENTS OF POLITICAL ECONOMY. The lectures will deal with the production and distribution of wealth; the means by which these processes are effected; the means by which they are controlled and regulated by the state or the community; the various theories concerning their operation and regulation; their effect on society, labor and capital; theories of money and credit; prices; public finance and taxation. Two hours per week in the second term of the Third Year. —Mr. Farthing.

*Books of Reference:*—Gide, Political Economy; Ralph and Griffith, Digest of British Economic History.

172. CANADIAN ECONOMIC PROBLEMS. This course is intended to familiarize engineering students with the most important economic problems of the day; the currency and banking systems; taxation; trade policy; the history of the tariff; transportation; its development and policy.—Prof. Day.

*..Corporation Finance:*—Valuations; specifications; contracts; estimates; financial programmes; rate making; depreciation.—Mr. Brown.

Two hours per week in the first term of the Fourth Year.

175. ENGINEERING LAW. This course is intended to present such an outline of the law as will be useful to engineers and business men. One hour per week in the Fourth Year.—Mr. Weldon.

## DEPARTMENT OF MATHEMATICS.

PROFESSORS:— D. A. MURRAY. C. T. SULLIVAN.

ASSISTANT PROFESSORS:— W. L. G. WILLIAMS. R. E. JAMIESON. T. H. MATTHEWS.

LECTURERS:— G. J. DODD. A. CAMPBELL.

### First Year.

191. GEOMETRY. Solid geometry and geometrical conic sections. First term.—Messrs. Dodd, Jamieson, Matthews, Williams.

*Text-book:*—Hall and Stevens' School Geometry, Parts I-VI (Macmillan.)

192. ALGEBRA. Miscellaneous theorems and exercises, exponential and other series, properties and solution of higher equations, complex numbers, graphical algebra with an introduction to analytic geometry, indeterminate forms, limits, derivatives, slopes of curves. First and second terms.—Messrs. Campbell, Dodd, Jamieson, Williams.

*Text-books:*—Hall's School Algebra, Parts I and II (Macmillan & Co.); Tanner and Allen's Analytic Geometry (American Book Co.), (Macmillan).

193. TRIGONOMETRY. Plane and spherical. Second term. Messrs. Dodd, Jamieson, Matthews, Williams.

*Text-book:*—Murray's Plane and Spherical Trigonometry, with tables (Longmans).

194. MECHANICS. An elementary course in dynamics, statics, and hydrostatics. First and second terms. Messrs. Campbell, Dodd, Jamieson, Williams.

*Text-book:*—Loney's Mechanics and Hydrostatics for Beginners (Cambridge University Press).

### Second Year.

197. ANALYTIC GEOMETRY. The point, straight line, circle, parabola, ellipse and hyperbola, elements of geometry of three dimensions. First Year (latter part of second term), and Second Year (first term). The Second Year work begins with the circle.—Messrs. Murray, Sullivan, Williams.

*Text-book:*—Tanner and Allen's Analytic Geometry (American Book Co.)

198. CALCULUS. Differentiation of functions of one or more variables, successive differentiation, tangents, etc., curvature, maxima and minima, integration, with application to areas, volumes, moments of inertia, etc. First and second terms. Messrs. Murray, Sullivan, Williams.

*Text-book:*—Murray's Differential and Integral Calculus (Longmans).

**Third Year.**

201. CALCULUS. Elementary differential equations. Prescribed for Electrical Engineering students of the Third Year; optional for all others. First and second terms.—Dr. Murray.

## DEPARTMENT OF MECHANICAL ENGINEERING.

PROFESSOR:—C. M. MCKERGOW.

ASSOCIATE PROFESSOR:—A. R. ROBERTS.

ASSISTANT PROFESSOR:—J. A. COOTE.

LECTURERS:—R. H. PATTEN. C. U. VESSOT. L. R. MCCURDY.

DEMONSTRATOR:—J. C. ELDER.

SHOP INSTRUCTORS:—G. WOOLLEY. W. GATEHOUSE. H. LANE. J. STEWART.

**First Year.**

211. MECHANICAL DRAWING. Instruction in the use of drawing instruments and materials, dimensioning, conventions and standards; preparation of working drawings and tracings of machine details and the detailing of assembly drawings. Required of all Engineering students. Six hours per week.—Professor Roberts and Assistants.

212. CARPENTRY AND WOOD-TURNING. Sharpening and care of wood-working tools; sawing, planing and paring to size; preparation of flat surfaces, parallel strips, and rectangular blocks; construction of the principal joints employed in carpentry and joiner work; wood-turning; use of wood-turning tools. Required of all Engineering students. Three hours per week, sixteen weeks.—Mr. Wooley.

213. SMITH-WORK. The forge and its tools; management of fire; drawing taper, square and parallel work; upsetting, twisting, cutting;

welding and scarfing. Required of all Engineering students. Three hours per week for eight weeks.—Mr. Stewart.

214. Foundry Work. Moulders' tools and materials used in foundry work; the cupola; the brass furnace; core-making; bench moulding; floor moulding; open sand work; melting and pouring metal; mixtures for iron and brass casting. Required of all Engineering students. Three hours per week for eight weeks.—Mr. Lane.

215. Shop Methods. A brief study of woods and of hand and machine tools used in wood-working; the forge and forge tools; welding, stock calculations, steam-hammer work, drop forging; the cupola, cupola practice, moulders' tools, moulding and core-making; lathes and machine-shop tools, interchangeable processes of manufacture, grinding, abrasives, etc. Required of all Engineering students. One hour per week.—Mr. McCurdy.

220. Machine-shop Work. Chipping; filing; scraping; use of scribing block and surface gauge; marking off work for lathes and other machines; turning and boring; screw-cutting; machining flat and curved surfaces; drilling and boring; cutting angles and speeds; dressing and grinding tools. Required of all Engineering students. Three hours per week for sixteen weeks.—Mr. Gatehouse.

**Second Year.**

218. Mechanics of Machines. (Second term.) *Kinematics of Machines.*—Constrained motion; kinematic pairing; velocity and acceleration in mechanisms; centrodes; analysis and classification of simple mechanisms, including the quadric crank chain, the slider crank chain and various wheel trains; design of involute and of cycloidal wheel-teeth.—Mr. Patten.

*Text-book:*—Durley's Kinematics of Machines (Wiley).

221. Shop Processes and Management. Materials used and methods adopted in the manufacture of patterns; factors involved in determining cutting speeds and feeds in lathe work, design of standard tools, experimental investigation; theory of grinding and grinding machines, polishing and lapping; broaching and broaching machines; different systems of generating gear teeth; precision methods and tools. Required of all Engineering students. One hour per week.—Mr. Vessot.

**Third Year.**

224. Mechanics of Machines. Alternative with course (258), Accounting. Relative motion and displacement; crank effort diagrams, fly-wheels and inertia forces; the mechanism of the simple slide valve and of expansion valves; solution of valve setting problems; the function and dynamics of governors; elements of engine balancing; friction

and lubrication. Required of students in Mechanical and Electrical Engineering. Three hours per week.—Mr. Vessot.

*Text-book:*—Ewing's Steam Engine (Camb. Univ. Press).

225. MACHINE DESIGN. Principles of the strength of materials as applied to the design of the part of machines; fastenings used in machine construction, bolts, screws, keys, cotters, rivets, and riveted joints; journals and bearings; shafts and couplings. Required of students in Mechanical and Electrical Engineering. Two hours per week.—Professor Roberts.

*Text-books*—Unwin's Machine Design, Part I (Longmans). *Book of Reference:*—Spooner's Machine Design (Longmans).

226. MECHANICAL ENGINEERING. General course in Mechanical Engineering of Power Plants and Prime Movers.

Fuel and combustion, steam, and steam production; corrosion and defects of boilers; boiler accessories, principles of selection and arrangement; the steam engine; estimation of power developed and economy; condensers, pumps and accessories; steam turbines; principles of design in steam plants; gas engines and gas producer plants. Required of all Engineering students, except those in Mechanical Engineering. Two hours per week.—Professor McKergow.

*Text-book:*—Duncan, Steam and Other Engines (Macmillan).

227. MECHANICAL ENGINEERING. Same course as 226, but more time is given to working out practical problems. Required of students in Mechanical Engineering. Three hours per week.—Prof. McKergow.

*Text-book:*—As for 226.

228. MECHANICAL ENGINEERING LABORATORY. Testing and calibration of indicators, brakes and other measuring instruments; tests to determine the efficiency of belt and other transmission gearing; the properties of lubricants; the economy and performance of a steam engine and boiler, of a gas engine, of an air compressor, and of a pump. Required of all Engineering students, except those taking the Electrical Engineering course. Three hours per week.—Professor McKergow and assistants.

*Reference book:*—Carpenter, Experimental Engineering.

223. MECHANICAL ENGINEERING LABORATORY. First term, course same as 228; second term, experimental work on the relative value of throttling and expansion governors; effect on the economy of steam engine of changing from simple to compound, triple, or quadruple expansion; the testing of steam boilers, producer gas engines, air compressors, steam turbines, and a complete steam power plant test. Required of students in Electrical Engineering. Six hours per week in first term and three hours per week in second term.—Professor McKergow and assistants.

*Reference book:*—Carpenter, Experimental Engineering.

229. THERMODYNAMICS. Fundamental laws and equations of thermodynamics; their application to gases and to saturated superheated vapours; efficiency of ideal heat engines; properties of steam, and elementary theory of the steam engine; elementary theory of gas and hot-air engines. Required of Third Year students in Mechanical and Electrical Engineering. Two hours per week.—Professor Roberts.

*Text-book:*—Marks and Davis, Steam Tables; Elements of Engineering Thermodynamics, Moyer, Calderwood and Potter. *Reference book:*—Ewing, The Steam Engine and Other Heat Engines (Camb. Univ. Pres).

231. MECHANICAL DRAWING. This course is supplementary to the course in machine design and consists of exercises in design and draughting of fastenings, machine parts and simple machines. Required of Mechanical Engineering students. Six hours per week for the first term and three hours per week for second term.—Mr. Coote.

232. MECHANICAL DRAWING. A course similar to 231, but less extended. Required of Electrical Engineering students. Three hours per week.

233. SMITH WORK. Tool forging and tempering, using carbon and high speed steels; making lathe and planer tools; taps, dies, drills, and tools for the forge; special welding. One week during the summer term, prior to work in Third Year session. Required of Mechanical Engineering students.—Mr. Stewart.

234. FOUNDRY WORK. Moulds requiring a higher degree of skill and judgment than in elementary course; special methods of strengthening the mould; coating for smooth surfaces on castings; methods of avoiding defects; cupola charging and operating; core mixtures and core making; coring models. For same period as 233. Required of Mechanical Engineering students.—Mr. Lane.

235. PATTERN-MAKING. Use of pattern-makers' tools; elements of pattern-making; preparation of prints and plain core-boxes; construction of patterns and core-boxes for pipes, flanges, elbows, tees and valves; built-up patterns and face-plate work; gear and wheel patterns. Required of students in Mechanical Engineering. One week during summer term. —Mr. Wooley.

236. MACHINE SHOP. Lathe work; marking off; centering; turning and boring; radial facing; filing; grinding and polishing; internal and external screw cutting; change gear calculations; taper turning and bench work. Required of students in Mechanical Engineering. Three hours per week for one term.—Mr. Gatehouse.

237. INDUSTRIAL ENGINEERING. Fundamental principles, modern tendencies and problems arising therefrom, scientific management, routing, etc., personnel and collective bargaining .

*Text-book:*—Industrial Organization (Kimball).

Two lectures per week during the first term.—Mr. Coote.

238. ACCOUNTING. Alternative with Mechanics of Machines (224). This course is designed to give students the fundamental principles of bookeeping and accounting so that they will be in a position to deal intelligently with the books of account and the financial statements met with in engineering work, particularly in manufacturing. One hour lecture and one problem period per week.—Mr. Coote.

*Text-book*:—Accounts, Their Construction and Interpretation (Cole).

**Fourth Year.**

240. MECHANICS OF MACHINES. (a) *Valve gears and governors.* Gyrostatic action in machines; further treatment of engine governors; knocking and shocks in reciprocating machinery; valve gears.—Prof. McKergow.

(b) *Aerodynamics.* The construction of an æroplane; methods of experiment in æronautics; prediction of performance from experimental data; stability and control; the theory of air screws. Three hours per week.

*Reference books:*—Dalby's Balancing of Engines; Spangler's Valve Gears.

241. DESIGNING. The complete design of an engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared. Required of students in Mechanical Engineering. Three hours per week.—Professor Roberts.

242. MACHINE DESIGN. (a) Design of power transmission gearing, including belts, ropes, friction, chain and toothed gearing, fits and fittting. (b) Engine details, including cylinders, piston rods, connecting rods, shafts, fly-wheels and machine frames. Required of Mechanical Engineering students. Two hours per week.—Professor Roberts.

*Text-book:*—Unwin's Machine Design, Parts I and II (Longmans).
*Reference book:*—Spooner's Machine Design (Longmans).

243. MACHINE DESIGN. Course same as 242 (a). Two hours per week during the second term. Required of Electrical Engineering students.—Professor Roberts.

244. POWER PLANT DESIGN. The arrangement, design and operation of power plants worked by steam and gas engines; effects of requirements for lighting, heating and power distribution. One lecture hour and one drafting room period per week. Required of students in Mechanical Engineering.—Professor McKergow.

*Text-book:*—Gebhardt, Steam Power Plant Engineering.

247. HEATING AND VENTILATION OF BUILDINGS. Loss of heat from buildings; radiation surfaces; design and operation of heating systems; principles of ventilation; fans and blowers; design and duct systems;

temperature and humidity control. One hour per week.—Professor McKergow.

*Text-book:*—Allen and Walker, Heating and Ventilating.

249. MECHANICAL ENGINEERING LABORATORY. Experimental investigation of:—action of governors; performance of fans and blowers; performance of steam boilers, steam engines, steam turbines, refrigeration machines, condensers, gas engines and producers, efficiency of air compressing and pumping machinery; tests of a complete steam power plant, gas power plant and a heating and ventilating system. Ten hour per week. Required of students in Mechanical Engineering.—Prof. McKergow.

*Reference book:*—Carpenter, Experimental Engineering.

249a. MECHANICAL ENGINEERING LABORATORY. Similar to course 249. Taken by students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Two periods per week.

257. EXPERIMENTAL ENGINEERING. Theory of errors; calibration and use of instruments; measurement of power; methods of testing power-plant apparatus and the tabulation of results. Required of students in Mechanical Engineering. One hour per week.—Prof. Roberts.

*Text-book:*—Carpenter, Experimental Engineering.

251. THERMODYNAMICS. Efficiency of the piston steam engine, behaviour of steam in the cylinder, influence of size, speed rate of expansion, compounding, superheating and steam-jacketing; flow of gases and vapours through orifices and nozzles and applications to the design of steam-turbines; theory and analysis of performance of internal-combustion engines; refrigerating-machine cycles. Required of students in Mechanical Engineering. Two hours per week.—Professor Roberts.

*Text-books:*—Ewing's Steam Engine (Cambridge Univ. Press); Moyer, Steam Turbines (Wiley); Marks and Davis, Steam Tables and Diagrams (Longmans).

*Books of reference:*—Stodola, The Steam Turbine (trans. Lowenstein) (Van Nostrand); Clerk, The Gas Petrol and Oil Engine, Part I.

252. MACHINE SHOP. Experimental work and studies for the minimum times required for production, involving a consideration of the best available machine tool speeds, necessary power of belting, most efficient tool angles, quality of metal and the kind of tool steel used. The course includes work in connection with the lathe, the planer, slotter, shaper and miller; instruction in gear cutting and cutter grinding. Required of students in Mechanical Engineering. Three hours per week.—Mr. Gatehouse.

253. MANUFACTURING PLANT DESIGN. Methods adopted in designing a plant for manufacture of a specified product; lay-out of shops; construction of buildings; equipment requirements for power, heat and light; fire protection, general system of operation and cost determination

as affecting design of plant. One lecture hour and one drafting room period per week, second term.—Mr. Coote.

*Text-book:*—Day, Industrial Plants (Engineering Magazine).

254. INDUSTRIAL ADMINISTRATION. Organization and functions of executives; production and cost methods, purchasing, statistics, plant location and arrangement; preparation of charts, routing systems, etc.

Two lectures and one drafting period per week per session.—Mr. Coote.

*Text-book:*—Industrial Management (Lansburgh).

## DEPARTMENT OF METALLURGICAL ENGINEERING.

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

SESSIONAL LECTURER:—HAROLD J. ROAST.

SPECIAL LECTURER:—CHARLES F. PASCOE.

RESEARCH FELLOW:—G. W. SWENY.

### Third Year.

261. ELEMENTARY METALLURGY AND LABORATORY. An introductory course in general metallurgy, including metals and alloys, fuels, furnaces, refractory materials, pyrometry and calorimetry, and a short account of the metallurgy of copper lead, iron and steel.

The instruction consists of lectures during the first term and a short laboratory course in which the following exercises will be carried out as far as time will permit:—(*a*) Roasting a sulphide or arsenical ore; (*b*) formation and properties of copper or lead mattes and slags; (*c*) smelting a copper or lead ore in crucibles; (*d*) melting and casting certain metals and alloys; (*e*) the use of the electric furnace; (*f*) leaching a copper or silver ore; (*g*) elementary exercises in some of the following: pyrometry, calorimetry, tests of refractory materials, microscopic examination of metals, heat-treatment of iron or steel, and some simple mechanical testing methods.

Two lectures a week during the first term and one laboratory period during half of the second term.—Mr. Sproule.

262. ELEMENTARY METALLURGY. The course of lectures as in 261, but without laboratory work, for Chemical Engineering students.

263. FIRE-ASSAYING. The lectures and instruction sheets give an account of the furnaces, balances and other appliances used in assaying, the sampling and preparation of ores, the fluxes and reagents employed, and the methods used in assaying gold, silver and lead ores, copper and copper ores and mattes, gold and silver bullion and base bullion, cyanide precipitates and solutions.

One lecture a week during the second term for Metallurgical and Mining students.—Mr. Sproule.

264. Fire-Assaying Laboratory. The students learn as many of the above-mentioned methods as possible in the time allowed to this course. Care is taken that a student shall be able to make such assays as would be required at a mine, and with a fair degree of accuracy. Students usually have an opportunity of doing additional fire assaying in their Fourth Year.

Two laboratory periods a week during the second term, for Metallurgical and Mining students.—Mr. Sproule.

*Reference books:*—E. A. Smith, Sampling and Assay of the Precious Metals; E. E. Bugbee, Fire Assaying.

265. Metallurgical Calculations. This is an introductory course on the application of exact chemical and physical laws to metallurgical operations, such as the combusion of fuel, the smelting of ores and the construction and heating of furnaces. One lecture a week during the first term for Metallurgical students.—Dr. Stansfield.

*Text-book:*—J. W. Richards, Metallurgical Calculations, Vol. I.

267. Metallurgical Field School. This is held at the end of the Third Year. The first part consists of visits to metallurgical works in Montreal and the vicinity, supplemented by reading and lectures. The second part consists of visits to smelters, steel-works and metallurgical refineries throughout Canada. Students are required to keep notes during the school and to submit a report of each works visited.

The Field School has been held in Nova Scotia, British Columbia and other parts of Canada, but it is usually conducted in Ontario, as this offers the greatest variety at the least cost. The only charge made is for board, lodging and railway fares, and care is taken to keep these as low as possible.

At the close of the School it is usually possible for each student to obtain suitable employment for the summer, at one of the works visited, and students are strongly advised to take this means of obtaining metallurgical experience.

**Fourth Year.**

271. Metallurgy (General).

(*a*) The metallurgy of iron and steel.

(*b*) The metallurgy of copper, lead, gold, silver, zinc and nickel.

Two lectures a week during the session and a few laboratory demonstrations.—Dr. Stansfield.

*Text-books:*—Bradley Stoughton, The Metallurgy of Iron and Steel; W. Gowland, the Metallurgy of the Non-ferrous Metals.

272. Metallurgy (Advanced).

(*a*) General advanced metallurgy.

*Text-books:*—Fulton, Principles of Metallurgy; Hofman, General Metallurgy; Dean, Theoretical Metallurgy.

(*b*) A more detailed account of the metals mentioned in 271, and of aluminum, antimony, arsenic, bismuth, cadmium, cobalt, mercury, platinum and tin.

*Reference books:*—Hofman, Metallurgy of Copper; Hofman, Metallurgy of Lead; Hofman, Metallurgy of Zinc and Cadmium; Collins, Metallurgy of Silver; Addicks, Copper Refining; Johnson, The Principles, Operation and Products of the Blast Furnace; Forsythe, The Blast Furnace and the Manufacture of Pig Iron.

Required of Metallurgical students. Two hours a week during the session.—Dr. Stansfield.

273. Fire-Assaying and Laboratory. A short course for Chemical Engineering students. For particulars see 263 and 264. One laboratory period and one lecture in the first term.—Mr. Sproule.

274. Metallurgical Laboratory and Thesis. Three periods per week in the second term are devoted to the serious study of some metallurgical problem. The students work singly or in pairs and prepare a thesis containing an account of important published work bearing on the subject, as well as the result of their own experimental researches. Required of Metallurgical students.—Dr. Stansfield.

275. Electro-Metallurgy and Laboratory. The course of lectures is devoted mainly to a consideration of the principles and construction of electric furnaces, and their uses for smelting and refining metals. The refining of metals and the recovery of metals from their ores by electrolysis of aqueous solutions is also considered. The laboratory work is arranged to illustrate the lectures. Groups of students operate each of the main types of electric furnace and become familiar with some of the principles of electric furnace construction and design. Two lectures a week and one laboratory period during the second term for Metallurgical students.—Dr. Stansfield.

*Text-book:*—Stansfield, The Electric Furnace.

276. Electro-Metallurgy. A course of lectures as in 275, and a few laboratory demonstrations for Electrical students.—Dr. Stansfield.

277. Metallurgical Colloquium. One hour a week during the second term is given to informal discussions of research and other work being done in the department, and to other topics of metallurgical interest.—Dr. Stansfield.

278. Metallurgical Calculations and Design. The calculation of furnace charges and efficiencies, and the designing of metallurgical furnaces and plants. One lecture a week during the first term and two periods per week in the library and drafting room during the second term.—Dr. Stanfield.

279. Metallurgical Analysis. In this course the student is enabled to acquire dexterity in the modern commercial methods of

analyzing ores and ferrous and non-ferrous alloys, taking into consideration the need of speed and reasonable accuracy. Instruction is given in the essential features of the methods employed and in fitting up a works laboratory. One lecture and one laboratory period per week during the second term.—Mr. Roast.

280. METALLOGRAPHY. A course of lectures on the fundamentals of metallography, including the heat-treatment of steel and the standardization of the common non-ferrous alloys. One lecture a week during the first term, for Metallurgical students.—Mr. Roast.

281. METALLOGRAPHIC LABORATORY. Laboratory instruction and practice in preparing and studying specimens of iron, steel, bronze, brass and babbitt metal for microscopic examination, and in the heat-treatment of steel and the methods of thermal analysis. One laboratory period per week during the first term, for Metallurgical students.—Mr. Roast.

282. METALLOGRAPHY AND LABORATORY. A short course of lecture and laboratory instruction, covering the essential features of theoretical and practical metallography. One lecture and one laboratory period per week during one half of the first term, for Chemical Engineering students.—Mr. Roast.

### EXTENSION COURSES.

A course of lectures and laboratory instruction in Metallography is given in the evening by Mr. Roast and Mr. Pascoe.

A course of lectures and laboratory instruction in Commercial Metallurgical Analysis is given in the evening by Mr. Roast.

For particulars see Announcement of Extension Courses.

### MINING AND METALLURGICAL SOCIETY.

Students taking the course in Metallurgical Engineering should become members of the Mining and Metallurgical Society, which meets at intervals during the session to read and discuss papers by student and graduate members and to hear addresses by engineers in practice. The society has been made a students' section of the Canadian Institute of Mining and Metallurgy and its undergraduate members are therefore student members of the Institute and receive all its publications. Papers read before the Students' Society may be entered in competition for all students' prizes offered by the Canadian Institute of Mining and Metallurgy or the Engineering Institute of Canada.

RESEARCH FELLOWSHIPS AND GRADUATE COURSES. One or more research fellowships are usually offered to graduate students in Metallurgical Engineering. Details of the graduate instruction are given on page 464.

## DEPARTMENT OF MINING ENGINEERING.

PROFESSOR:—JOHN BONSALL PORTER.

ASSOCIATE PROFESSOR:—JOHN W. BELL.

LECTURER:—WILLI ERLENBORN.

DAWSON RESEARCH FELLOW:—J. A. BECKING.

DOUGLAS RESEARCH FELLOW:—A. K. MUIR.

HARRINGTON RESEARCH FELLOW:— ————

### Third Year.

291. MINING ENGINEERING. *The principles and practice of mining.*—Introductory, simple mining methods, excavation, explosives and blasting, rock drills, coal cutters, gold washing and dredging, hydraulic mining, quarrying, etc. Two lectures per week in the second term. This course is continued in the Fourth Year. (See 297.)—Dr. Porter.

292. ORE DRESSING. *The theory and practice of ore dressing and coal washing.*—The forms in which ores occur and the effect of mixture, impurity, etc.; the theoretical considerations affecting mineral separations; the mechanical operations involved; crushing. sizing and dressing machinery—breakers, stamps, rolls, screens, jigs, vanners, tables, flotation apparatus, washers, magnetic separators, etc. Two lectures per week and laboratory. This course is continued in the Fourth Year. (See 300.)—Dr. Porter.

ORE DRESSING LABORATORY. Simple tests of ores, sands and gravels, by means of pan, classifier, jig, table, etc. Six afternoons in the second term. Further laboratory work in the Fourth Year. (See 305 and 306.)—Professor Bell and Mr. Erlenborn.

295. CRUSHING MACHINERY. This is the first half of course 292 and is taken by students in Chemical Engineering as well as by Mining and Metallurgical students. Two lectures per week in first term.—Dr. Porter.

293. MINE MAPPING. The calculations and plotting of mine surveys. One afternoon per week in the first term. Prof. Bell and Mr. Erlenborn.

*Text-books:*—H. C. Hoover's Principles of Mining, D. W. Brunton's Safety in Tunnelling, Truscott's Ore Dressing, and Peele's Mining Engineer's Handbook.

### Fourth Year.

297. MINING ENGINEERING. *The principles and practice of mining.*—Prospecting, artesian and oil wells, diamond drilling, open cut mining, shaft sinking, drifting, underground development and methods of mining, timbering, hauling, hoisting, pumping, lighting, ventilating, etc.; mine accidents and their prevention; general arrangement of plant,

stores and dwellings; administration and industrial relations; examination and valuation of mines and mine reports. Three lectures a week. —Dr. Porter and Mr. Erlenborn.

298. MINING AND ORE-DRESSING MACHINERY AND DESIGN. *The application of mechanical and electrical engineering to mining, ore-dressing and metallurgy.*—Machinery for haulage, hoisting, pumping, ventilating, etc.; mine power plants, power transmissions, tramways, cableways, compressors, fans, conveyors, cranes, etc.; mine and mill building, head frames, ore bins, lay-out of plant, etc. Two lectures a week and two drafting room periods in the second term for all students in course.—Dr. Porter, Professor Bell and Mr. Erlenborn.

299. MINING AND ORE-DRESSING (ADVANCED). This course is supplementary to 298 and is given to students electing to take alternative (b). It includes a series of lectures and colloquia on advanced work in mining, ore-dressing and industrial relations. The students are encouraged to take up individual subjects in-so-far as possible. One lecture and one laboratory period per week throughout the session. —Dr. Porter, Professor Bell and Mr. Erlenborn.

300. ORE-DRESSING AND MILLING. Continuation of the ore-dressing course of the Third Year. Gold and silver milling, amalgamation cyaniding, flotation, etc., concentration plants, coal breakers and washers, general conclusions regarding plant design and lay-out. Two lectures a week in the first term.—Dr. Porter and Mr. Erlenborn.

301. MINING COLLOQUIUM. One hour a week is given to the presentation and discussion of papers on the work being done in the department and to other matters relating to mining and ore-dressing. Students are required to take the leading part in these exercises.

305. ORE-DRESSING LABORATORY. One and one-half mornings per week in the first term are given to the ore-dressing and hydraulic laboratories. This time is chiefly assigned to ore-dressing, and certain typical operations are carried out. The exercises in ore-dressing are a continuation of the Third Year laboratory work, but are arranged as far as possible for individuals rather than groups of students. They comprise experiments in crushing, classifying, jigging, slime treatment, magnetic separation, cyanidation and amalgamation, coal washing, etc.

306. ORE-DRESSING LABORATORY AND THESIS WORK. In the second term one whole day and one additional morning per week are given to individual work in the laboratory and to the preparation of a thesis to be filed in the departmental library, and, when suitable, published. Students who complete the work in course 305 before the end of the first term, begin their thesis work without delay.

The subjects available for thesis work are very numerous, and range from purely theoretical investigations in crushing, screening, classification, concentration, flotation, etc., to the experimental determination of the best methods for the treatment of particular ores and

coals. Numerous different lots of ore are available in sufficient quantities for work on a comparatively large scale. New ores are constantly being secured.

*Text-books:*—In addition to the text-books already specified for the Third Year, students are required to provide themselves with Hamilton's Manual of Cyanidation. In addition to using these formal text-books, students are required to make such frequent use of the works named below, that they should, if possible, be purchased by each member of the class:—Hager's Oil Field Practice; Donaldson's Practical Shaft Sinking; Brinsmade's Mining Without Timber; Handbook of Mining Details or the Design of Mine Structures, published by McGraw-Hill Co.; Ketchum's Design of Mine Structures; McCulloch and Futer's Winding Engines; Storms' Timbering and Mining; Peele's Compressed Air Plant; Richard's Textbook of Ore-Dressing; Richard's Flotation, and Sampling and Estimation of Ore in a Mine; Thompson's Stamp Milling and Cyaniding; Julian and Smart's Cyaniding Gold and Silver Ores; Meagraw's Details of Cyanide Practice; Hoover's Concentrating Ores by Flotation; Prochaska's Coal Washing; The Coal and Metal Miners' Pocket-book.

### Research Fellowships and Graduate Courses.

Special courses of instruction are offered to graduate students in mining and ore-dressing. See announcement of the Faculty of Graduate Studies and Research. There are three endowed Research Fellowships in the gift of the Mining Department. These are assigned to graduates of the department who show particular aptitude for advanced work.

### Laboratories.

The specific laboratory instruction in mining subjects proper begins in the Third Year, with courses in assaying, elementary metallurgy and ore-dressing. In the Fourth Year this work is elaborated, the general method of instruction being first to conduct a limited number of typical operations, and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make written reports. In this work he is guided by the professors and fellows, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of certain typical operations and makes at least one original investigation and at the same time gains a fair general experience of many of the important methods in use.

### Illustrations, Museums, Societies, Etc.

In addition to the usual projection apparatus and a collection of over two thousand lantern slides, the department has a standard motion picture projector and has made arrangements with the U.S. Bureau of

Mines and other sources whereby several large series of Mining films are available for class use. There is also a collection of over 4000 photographs and other illustrations, and a good departmental library, including selected trade catalogues, etc. These collections are constantly being enlarged.

The museums of the building contain suites of ores, concentrates, fuels, and metallurgical materials, models of mines and furnaces, and collections of finished products.

The McGill University Mining and Metallurgical Society and the Mining Society Camera Club meet at stated periods to read and discuss papers by graduate and student members, and occasionally to hear lectures by gentlemen eminent in the profession. The Society has been made a students' section of the Canadian Institute of Mining and Metallurgy and its undergraduate members are therefore student members of the Institute, and receive its publications. Papers read before the Mining Society or submitted as Summer Essays may be entered in competition for all students' prizes offered by the Canadian Institute of Mining and Metallurgy, or the Engineering Institute of Canada.

### Field School in Mining.

294. The summer vacation field class, instituted in 1898, is now a fixed part of the course. All students in Mining in regular course are required to attend this class at the end of the Third Year.

The school lasts from four to five weeks, depending on where it is held. Of this period about one-sixth is given to field work in geology, one-half or more to mining work proper, and the remainder to an examination of ore-dressing and milling plants and metallurgical establishments. The Professor or the Associate Professor of Mining and other members of the staff go with the party and hold daily demonstrations or classes. The students take notes and sketches on the ground, and afterwards are required to work up these notes and to submit a formal report.

During the last twenty-five years these field parties have visited British Columbia ten times, Nova Scotia six times, Newfoundland and Pennsylvania twice each, and Michigan four times. Numerous visits have also been made to Sudbury, Cobalt and other localities, while *en route* to more distant points.

The instruction given during this field course is free to all Mining students, the only expense to them being the cost of board, lodging and railway fares. These expenses are kept as low as is practicable and are in part met by the income from a fund provided by the late Sir William Macdonald.

At the close of the regular work of the field school, arrangements are made with the managers of the mines visited and others to give the members of the party individual employment for the remainder of the summer. All students are earnestly advised to engage in such work, and it is probable that it will be made obligatory at an early date in the future.

## DEPARTMENT OF PHYSICAL EDUCATION.

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.
UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.
ATHLETIC MANAGER:—MAJOR D. S. FORBES, M.C.
TRACK COACH AND ASS'T. PHYSICAL DIRECTOR:—F. M. VAN WAGNER.
RUGBY AND HOCKEY COACH:—F. J. SHAUGHNESSY.
ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

In order to promote as far as possible the physical welfare of the student body, every student coming to the University for the first time will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of the Second Year, as well as those of all Years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration.

Each student at the time of examination is given a card which entitles him to take part in certain forms of activity:

(*a*) Fit for all forms of physical exercise.
(*b*) Fit for a limited number of forms.
(*c*) Fit for gymnasium work only.
(*d*) For for remedial gymnastics or temporarily unfit.
(*e*) Unfit for any form of physical exercise.

The preference of the student as regards the form of physical activity in which he shall participate is considered as far as possible.

All students entering the University for the first time are required to present certificates, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the medical examiner. Students who do not give evidence of successful vaccination or who do not present themselves for medical examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

For the Session 1924-25 all First and Second Year students in Arts, Science, Commerce, Medicine and Dentistry are required to attend two hours per week physical exercise throughout the Session.

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, either by taking a supplemental school after class hours, in October and November if the deficiencies are not too great or by repeating the course in full.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of his Faculty and approved by the Committee on Physical Education.

The Athletic Board is responsible for the organization, administration and supervision of the entire athletic programme. The composition of the Board is as follows:—The Principal of the University, Chairman, the Bursar, three members of the teaching staff, three graduates, one of the Stadium guarantors and three undergraduates. The Athletic Manager is Secretary of the Board. Intra-mural and Intercollegiate competitions are conducted in the following sports:—Basketball, Boxing, Wrestling and Fencing, English Rugby, Golf, Gymnastics, Harriers, Hockey, Indoor Baseball, Rugby, Ski-ing and Snowshoeing, Association Football, Swimming and Water Polo, Tennis, Track and Field.

All students of all years must, during the current session and prior to participation in competitive athletics or otherwise engaging in athletic practice or competition, have passed the University medical examination and have received an appropriate category.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

The managers and captains of clubs, or other responsible executive officers, are required to insist upon the strict observance of the rule in regard to medical examination and all the rules and regulations of the Committee which concern them.

All clubs must submit their regulations, rules, and by-laws, and any changes in the same, for the approval of the Board. They must make application for the use of such portions of the grounds as they require, and for any special privileges.

During the session and including the Christmas holidays, all teams and individual *students desiring to participate in "outside"* athletics* must first apply to the Captain or Manager of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

All students of the University are required to pay a fee of five dollars ($5.00) for the use of the grounds (this is included in the general fee of $17.00 paid by undergraduates). The amount so paid is credited to the Athletic Board, and is by this body expended in the interest of College athletics, under the general direction of the Committee on Physical Education.

The amount derived as grounds and athletics fees from the students of the Royal Victoria College is placed at the disposal of the Committee on Physical Education, for expenditure in the interests of women-students.

The annual sports of the University are held on the third Friday of October in each year. The day is observed as a holiday.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students, will be distributed at the opening of the session.

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*Outside athletics is interpreted to mean those athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.

## DEPARTMENT OF PHYSICS.

DIRECTOR:—A. S. EVE.

PROFESSOR:—L. V. KING (absent on leave).

ASSOCIATE PROFESSOR:—A. N. SHAW.

ASSISTANT PROFESSORS:—
- H. E. REILLEY.
- D. A. KEYS.
- E. S. BIELER.
- J. S. FOSTER.

DEMONSTRATORS:—
- R. J. CLARK (on leave).
- W. C. QUAYLE (on leave).
- M. CROWE.
- N. CAM.
- A. V. DOUGLAS.
- M. HOME.
- B. PRIESTMAN.
- F. G. ADNEY.
- C. G. GLIDDON.

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing in the First Year:—*The Laws of Energy, Heat, Light and Sound;* in the Second Year, *Electricity and Magnetism,* accompanied by courses of practical work in the laboratory, in which the students will perform for themselves experiments, chiefly quantitative, illustrating the subjects treated in the lectures. Opportunity will be given to acquire experience with all the principal instruments used in exact physical and practical measurements.

### First Year (Architecture).

44. GENERAL COURSE. (Arts No. 1.) Two hours Wednesday and Friday at 2 p.m.—Mr. Reilley.

*Text-book:*—Kimball's College Physics (Holt).

45. LABORATORY COURSE. (Arts No. 1.) Two hours per week.

*Text-book:*—Laboratory Manuscripts (Renouf Pub. Co.)

### First Year.

311. HEAT, SOUND AND LIGHT. (Arts No. 2.) Two hours per week.—Dr. Shaw.

*Text-book:*—Duncan & Starling's Heat, Light and Sound (Macmillan).

312. LABORATORY COURSE. (Arts No. 2.) Two hours per week, spent in practical measurements in the Macdonald Physical Laboratory in conjunction with the lecture course. See time-table of sections.

*Text-books:*—Laboratory Manuscripts, Barnes & Wheeler (Renouf Pub. Co.).

**Second Year.**

315. ELECTRICITY AND MAGNETISM. (Arts 3A.) Two hours per week.—Dr. Eve.

316. LABORATORY COURSE., (Arts 3A.) Two hours per week.

*Text-books:*—Duncan and Starling, Electricity and Magnetism (Macmillan's); Laboratory Manuscripts (Renouf Publishing Co.).

**Fourth Year.**

320-321. LABORATORY COURSE. (Arts 6A.) Students of Electrical Engineering will continue their work in the Physical Laboratory in the Fourth Year. The following is a brief outline of the course:—

Magnetic elements and measurements; testing magnetic qualities of iron; theory and practice of absolute measurements; comparison and use of electrical standards of resistance, E.M.F., self and mutual-induction, and capacity; testing and calibration of ammeters and voltmeters; insulation and capacity tests; electric light photometry; electrical properties of thermionic valves. Two lectures and two laboratory periods per week. Dr. Bieler and Mr. Adney.

*Text-book:*—Laws' "Electrical Measurements" (McGraw-Hill).

ADVANCED COURSES AND RESEARCH. For advanced courses of lectures, see announcement of the Faculty of Graduate Studies and Research and also Arts Faculty Bulletin under honour courses. There are special facilities offered for those desiring to take up research work in heat, optics, sound, electricity and magnetism, and radioactivity.

*For Course in Engineering Physics, see page 242.*

## DEPARTMENT OF SURVEYING AND GEODESY.

ASSISTANT PROFESSORS:— A. J. KELLY. JAMES WEIR.

DEMONSTRATOR:—J. F. KELLY.

This course is designed to give the student a theoretical and practical training in the methods of plane and geodetic surveying, in the field work of engineering operations, and in practical astronomy in its application to geodesy. The course is divided as follows:—

**Second Year.**

346. SURVEYING. Chain and angular surveying; the construction, adjustment, use and limitations of the transit, level, micrometer, compass and minor field and office instruments; railway circular curves; planimeter and pantograph; general topography; levelling; contour surveying; stadia surveying; photographic surveying; land systems of the Dominion and provinces. Mr. Kelly.

*Text-books:*—Johnson and Smith's Theory and Practice of Surveying; Breed and Hosmer's Principles and Practice of Surveying, Vol. 1.

347. FIELD WORK. (1) Compass and chain, compass and micrometer, and chain surveying.

(2) Differential, profile, topographic and quantity levelling.

(3) Azimuth and deflection, angle traversing, accurate methods of angle measurement, and stadia surveying.

348. MAPPING. Drafting from field notes of chain and stadia surveys; plotting topographical features; tinting maps with water-colours. Plotting photographic surveys.

**Third Year.**

351. MAP PROJECTIONS. Graphical determination of spherical triangles; spherical projections, and the construction of maps. Mr. Weir.

*Text-book:*—Deetz and Adams' Elements of Map Projections.

352. SURVEYING. Theory and use of instruments; hydrographic surveying; the use of the plane table; mining surveying; barometric and trigonometric levelling; elements of practical astronomy. Mr. Kelly.

*Text-book:*—Johnson and Smith's Theory and Practice of Surveying.

*Reference Book:*—Durham's Mine Surveying.

353. SURVEYING. Theory and use of instruments; the use of the plane table; mining surveying; magnetic surveying; hydrographic surveying; barometric and trigonometric levelling; theory and setting-out of transition curves; elements of geodetic surveying; elements of practical astronomy. Mr. Weir.

*Text-books:*—Johnson and Smith's Theory and Practice of Surveying; Hosmer's Practical Astronomy.

354. FIELD WORK. (1) The adjustments of the instruments; (2) the preliminary, topographic and location surveys for a railway, including simple, compound, transition and vertical curves, profile levelling, cross-sectioning for construction, and plotting of field notes; (3) a topographic survey with the stadia transit and plane table; (4) a hydrographic survey of a river channel, including measurement of discharge; (5) a survey at night illustrating underground methods; (6) astronomical observations with engineer's transit.

**Fourth Year.**

359. GEODESY. The determination of time, latitude, longitude and azimuth; figure of the earth, measurements of base lines and triangulation systems; adjustment and reduction of observation. Mr. Weir.

*Text-book:*—Hosmer's Geodesy.

361. FIELD WORK. (1) Determination of latitude, (*a*) by transit and sextant observations of Polaris, (*b*) by zenith telescope, (*c*) by noon observations with transit and sextant; (2) determination of azimuth, (*a*) by equal altitude observations of the sun, (*b*) by observations of elongation of Polaris, (*c*) by observation of a circumpolar star with engineer's transit, (*d*) by means of solar attachments and solar compass; (3) determination of time (*a*) by equal altitude observations of the sun with sextant and transit, (*b*) by observations of the meridian passage of stars with astronomical transit; (4) determination of longitude by clock comparisons; (5) base line measurements; (6) precision levelling; (7) measurement of angles by geodetic methods; (8) plane table surveys.

360. GEODETIC LABORATORY. The following determinations of the constants and errors of surveying instruments are made in the geodetic laboratory by the Fourth Year students in the Civil Engineering course: —Measurement of (1) magnifying power, (2) eccentricity of circles, (3) inclination error in astronomical transits by nadir observations; determinations of (4) gravity by means of the reversible pendulum, (5) errors of run of theodolite microscopes, (6) constants of steel tapes, (7) scale value of level vials, (8) collimation error of astronomical transits by fixed collimators and by nadir method; investigation of the errors of graduation of (9) steel bars, (10) steel tapes, (11) transit circles, (12) the testing of aneroid barometers.

*See also page* 309.

FIELD WORK.

Field work is required of all students entering the Second Year, of students of the Third Year in the courses of Civil and Mining Engineering, and of the Fourth Year in Civil Engineering. The work will begin in 1925 on or about April 28th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties and who cannot attend the above courses in Field Work, must attend Special Summer Schools, details of which are given on page 243.

All students are required to keep complete field notes, and to prepare maps, sections and estimates for their own surveys. This office work is principally done during the regular summer school session.

## REGULATIONS CONCERNING PREREQUISITE SUBJECTS

### REGISTRATION, STANDING AND PROMOTION.

(1) Students proceeding to a degree shall be classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their course, or who at the opening of the following session have removed all conditions by passing supplemental examinations in the subjects in which they failed. Conditioned Undergraduates are those who have failed to remove all of their conditions as above.

(2) No student proceeding to a degree shall be allowed to take any subject, unless he has previously passed, or secured exemption in, all prerequisite subjects.*

(3) No Conditioned Undergraduate shall be permitted to take any Second Year subject until he has passed, or secured exemption in, all matriculation requirements, and similarly, no Third or Fourth Year work may be undertaken until all First or Second Year subjects respectively shall have been passed. The Faculty may, however, waive this rule in special cases on recommendation of the Committee on Registration, Standing and Promotion.

(4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the Committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the head of each department concerned, and have also had their courses approved by the Committee on Registration, Standing and Promotion.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he shall not be given credit for subjects taken in contravention of the prerequisite rule until he has also passed

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*Prerequisite subjects are those which, in the opinion of the Faculty, must be mastered before the subjects to which they are prerequisite can be intelligently studied. (See pages immediately following.)

Concurrent subjects are related subjects which should be studied in the same session.

examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.

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**No Fourth Year student shall be allowed a supplemental or special supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.**

List of subjects in the Faculty of Applied Science with the number of subjects which are prerequisite and concurrent.

| No. | Year | Subject | Prerequisite | Concurrent |
|---|---|---|---|---|
| 1 | II | Arch. Design A | 18, 33, 38 | 6 |
| 2 | III | " " B | 1 | 7 |
| 3 | IV | " " C | 2 | 8 |
| 4 | V | " " D | 3 | |
| 5 | I | Elements of Architecture | | |
| 6 | II | Elements of Composition | | |
| 7 | III | Theory of Design | 1 | |
| 8 | IV | Theory of Planning | 1 | |
| 9 | III or IV | Ornament and Decoration | 34, 39 | |
| 10 | III or IV | " " " | 34, 39 | |
| 11 | III or IV | " " " | 34, 39 | |
| 12 | III or IV | " " " | 34, 39 | |
| 13 | I | General History (Arts II) | | |
| 14 | II | History of Arch. (Classic) | | 34 |
| 15 | III or IV | " " (Mediaeval) | 13 | 35 |
| 16 | III or IV | " " (Renaissance) | 13 | 36 |
| 17 | V | " " (Modern) | 14 | |
| 18 | I | Architectural Geometry I | | |
| 19 | II | Arch. Geometry II | 18 | |
| 22 | IV or V | Hygiene of Buildings | | |
| 23 | IV or V | Heating and Ventilation | | |
| 24 | II | Building Construction | | |
| 25 | II | Building Details | | 24 |
| 26 | II | Architectural Engineering I | | |
| 27 | II | Arch. Engineering I (Draughting) | | 26 |
| 28 | III or IV | Architectural Engineering II A | 26 | |
| 29 | III or IV | Arch. Eng. II A (Draughting) | 26 | 28 |
| 30 | III or IV | Architectural Engineering II B | 26 | |
| 31 | III or IV | Arch. Eng. II B (Draughting) | 26 | 30 |
| 32 | V | Professional Practice | 24 | |
| 33 | I | Architectural Drawing | | 5 |
| 34 | II | " " | | |
| 35 | III | " " | | |
| 36 | IV | " " | | |
| 37 | V | Historical Drawing | | |
| 38 | I | Freehand Drawing | | |
| 39 | II | " " | 38 | |
| 40 | III | " " | 39 | |
| 41 | IV | " " | 40 | |
| 42 | IV | Modelling | | |
| 43 | V | " | 42 | |
| 44 | I | Physics (Arts) | | |
| 45 | I | Physics Lab. (Arts) | | |
| 46 | II | Architectural Essay | | |
| 47 | III | " " | | |
| 48 | IV | " " | | |
| 49 | V | " " | | |
| 50 | II, III, IV, & V | Summer Work | | |
| 51 | II | General Chemistry | 311, 312 | 52 |
| 52 | II | Gen. Chem. Lab. (Eng. Students) | 311, 312 | 51 |
| 54 | III | Inorg. Qual. Anal.—Summer School (Chem. Eng. and Met. Eng. Students) | 51, 52 | 55 |

| No. | Year | Subject | Prerequisite | Concurrent |
|---|---|---|---|---|
| 55 | III | Inorg. Qual. Anal. Lab.—Summer School (Chem. Eng. and Met. Eng. Students) | 51, 52 | 54 |
| 56 | III | Organic Chemistry | 51, 52 | 57 |
| 57 | III | " " Lab | | 56 |
| 58 | III | Physical Chemistry | 51, 52 | |
| 59 | III | Inorg Qual. Anal | 51, 52 | 60 |
| 60 | III | " " " Lab | | 59 |
| 61 | III | " Quant. " | 51 | 62 |
| 62 | III | " " " Lab | | 61 |
| 64 | IV | Advanced Organ. Chem. | 56, 57 | 65 |
| 65 | IV | Advanced Organic Laboratory | 56, 57 | 64 |
| 66 | IV | Physical Chem. and Lab | 58 | |
| 67 | IV | Inorg. Lab | 61, 62 | |
| 68 | IV | Industrial Chemistry, Inorganic | 61, 62 | |
| 69 | IV | Industrial Chemistry, Organic | 61, 62 | |
| 70 | IV | Applied Electro-Chem. | 51, 52 | |
| 71 | IV | Inorg. Quant. Anal. (Mining Students) | 59, 60 | |
| 72 | IV | Adv. Inorg. Chemistry | 58 | |
| 73 | IV | Food Chemistry | 56, 57 | 65 |
| 74 | IV | History of Chemistry | 51, 56 | |
| 75 | IV | Colloid Chemistry | 56,57,58,59,60 | |
| 81 | II | Materials of Construction | | |
| 82 | III | Sanitary Science | | |
| 83 | II | Mechanics | 194 | 198 |
| 85 | III | Highway Engineering | | |
| 86 | III | Mechanics | 83, 198 | |
| 87 | III | Strength of Materials | 83, 198 | |
| 88 | III | " " Lab | | 87 |
| 89 | III | Foundations | | 87 |
| 90 | III | Structural Engineering | | 87 |
| 91 | IV | Mill Buildings | 90 | |
| 92 | III | Railway Engineering | 83,346,347,348 | |
| 93 | III | " " | 83,346,347,348 | 92 |
| 94 | IV | Theory of Structures | 87 | |
| 95 | IV | Strength of Materials | 87 | |
| 96 | IV | Bridge Design | 90 | 94 |
| 96a | IV | " " | 90 | 94 |
| 97 | III & IV | Hydraulics | 83 | |
| 98 | III & IV | " Lab | | 97 |
| 99 | IV | " Machines | | 97 |
| 100 | IV | Hydraulics and Lab. (Short Course) | 83 | |
| 101 | IV | Municipal Engineering | 97, 98 | |
| 102 | IV | Water Supply & Sewerage | 82, 97, 98 | |
| 103 | IV | Waste Disposal | | |
| 104 | IV | Civic Administration | | |
| 111 | III & IV | Elements of Elec. Eng. | 198, 315, 316 | |
| 111a | III & IV | " " " | 198, 315, 316 | |
| 112 | III & IV | Elec. Eng. Lab. (Elementary) | | 111 |
| 112a | III & IV | " " " | 198 | |
| 113 | III | Electrical Engineering | 198 | |
| 114 | III | Elec. Engineering Lab | | 113 |
| 117 | IV | Electrical Engineering | 113, 114, 201 | 320, 321 |
| 118 | IV | Elec. Eng. Lab. (Elec. Eng. Students) | 113 | 117 |
| 120 | IV | Elec. Light and Power Distribution | | 117, 118 |
| 121 | IV | Electric Traction | | 117, 118 |
| 122 | IV | Electrical Designing | 232 | 117, 118 |

| No. | Year | SUBJECT | Prerequisite | Concurrent |
|---|---|---|---|---|
| 123 | IV | Applications of Electricity | 113 | 117 |
| 124 | IV | Elec. Photometry and Illumination | 113 | 117 |
| 131 | I | English Composition | | |
| 132 | II | Summer Reading | | |
| 133 | III | Summer Reading or Essay | | |
| 134 | IV | Summer Essay | | |
| 141 | III | Geology, General | | |
| 142 | III | Mineralogy | 51 | |
| 143 | III | Mineralogy, Determinative | 51 | |
| 146 | IV | Petrography and Lab | 141 | |
| 147 | IV | Petrography (Advanced) | 141, 142, 143. | |
| 148 | IV | Ore Deposits and Economic Geol | 141 | |
| 149 | IV | Geology of Canada | 141 | |
| 151 | IV | Crystallography | 142 | |
| 152 | IV | Geology, Historical | 141, 142, 143.. | |
| 153 | IV | Geology Fieldwork (with 294) | 141, 142, 143.. | |
| 171 | III | Elements of Political Economy | | |
| 172 | IV | Canadian Economic Problems | 171 | |
| 175 | IV | Engineering Law | | |
| 191 | I | Geometry | | |
| 192 | I | Algebra | | |
| 193 | I | Trigonometry | | |
| 194 | I | Mechanics | | |
| 197 | II | Analytic Geometry | | |
| 198 | II | Calculus | 192 | |
| 201 | III | Calculus | 198 | |
| 211 | I | Mechanical Drawing | | |
| 212 | I | Carpentry and Wood Turning | | |
| 213 | I | Smith Work | | |
| 214 | I | Foundry Work | | |
| 215 | I | Shop Methods | | |
| 218 | II | Mechanics of Machines | 191, 192, 194.. | |
| 220 | I | Machine Shop Work | | |
| 221 | II | Shop Processes | | |
| 223 | III | Mech. Eng. Lab. (Elec. Eng. Students) | | 226 |
| 224 | III | Mechanics of Machines | 83, 218 | |
| 225 | III | Machine Design | | 87, 231 or 232 |
| 226 | III | Mech. Eng. (General Course) | | 228 |
| 227 | III | " " (Mech. Eng. Students) | | 228 |
| 228 | III | " " Lab | | 226, 227 |
| 229 | III | Thermodynamics | 198 | |
| 231 | III | Mech. Drawing (Mech. Eng. Stud.) | | 225 |
| 232 | III | " " (Elec. Eng. Stud.) | | 225 |
| 233 | III | Smith Work (Summer School) | 213 | |
| 234 | III | Foundry Work (Summer School) | 214 | |
| 235 | III | Pattern Making | 212 | |
| 236 | III | Machine Shop Work | 220 | |
| 237 | III | Industrial Engineering | | |
| 238 | III | Accounting | | |
| 240 | IV | Mechanics of Machines | 224 | |
| 241 | IV | Designing | 225, 231 | 242 |
| 242 | IV | Mach. Design (Mech. Students) | 225 | |
| 243 | IV | Mach. Design (Elec. Students) | 225 | |
| 244 | IV | Power Plant Design | 227 | |
| 247 | IV | Heat and Ventilation of Buildings | 227 | 244 |

| No. | Year | Subject | Prerequisite | Concurrent |
|---|---|---|---|---|
| 249 | IV | Mech. Eng. Lab. | 227, 228 | |
| 249a | IV | Mech. Eng. Lab. (alt.) | 227, 228 | |
| 251 | IV | Thermodynamics | 228, 229 | |
| 252 | IV | Machine Shop Work | 236 | |
| 253 | IV | Manufacturing Plant Design | | |
| 254 | IV | Industrial Administration | 221, 238 | 252 |
| 257 | IV | Experimental Engineering | 227, 228 | 249 |
| 261 | III | Elem. Metallurgy and Laboratory | 51 | |
| 262 | III | Elem. Metal. (Chem. Eng. Stud.) | 51 | |
| 263 | III | Fire Assaying | 51, 52 | 264 |
| 264 | III | Fire Assaying Laboratory | 51, 52 | 263 |
| 265 | III | Metall. Calculations | | 261 |
| 267 | IV | Metall. Field School | | |
| 271 | IV | Metallurgy (General) | 261 | |
| 272 | IV | " (Advanced) | 261 | 271 |
| 273 | IV | Fire Assay. & Lab. (Chem. Eng. Stud.) | 261 | |
| 274 | IV | Metall. Lab. and Thesis | 261 | 271 |
| 275 | IV | Electro-Metallurgy and Lab | 51 | |
| 276 | IV | " " (Elec. Stud.) | | |
| 277 | IV | Metall. Colloquium | 261 | 271 |
| 278 | IV | Metall. Calculations and Design | 265 | 272 |
| 279 | IV | Metall. Analysis | 61, 62 | 67 |
| 280 | IV | Metallography | | |
| 281 | IV | Metallographic Lab | | |
| 282 | IV | Metall. & Lab. (Chem. Eng. Students) | | |
| 291 | III | Mining Engineering | 51 | |
| 292 | III | Ore Dressing and Laboratory | | 142, 226 |
| 293 | III | Mine Mapping | 346, 348 | |
| 294 | III | Mining Field School | 141 | |
| 295 | III | Crushing and Grinding Machinery | | 226 |
| 297 | IV | Mining Engineering | 226, 291 | |
| 298 | IV | Mining Machinery and Design | 81, 226, 300 | 297 |
| 299 | IV | Mining Machinery (Advanced) | 315 | 297 |
| 300 | IV | Ore Dressing and Milling | 292 | |
| 301 | IV | Mining Colloquium | | 297, 300 |
| 305 | IV | Ore Dressing Laboratory | 292 | 300 |
| 306 | IV | Ore Dressing Lab. (Thesis Work) | 264, 305 | |
| 311 | I | Physics | | |
| 312 | I | Physical Laboratory | | 311 |
| 315 | II | Physics | | |
| 316 | II | Physical Laboratory | | 315 |
| 320 | IV | Physics (Electrical Engineering) | 315, 316 | |
| 321 | IV | Physical Laboratory (Elec. Eng.) | | 320 |
| 341 | I | Descriptive Geometry | | |
| 342 | I | Freehand Drawing | | |
| 343 | I | Lettering | | |
| 345 | II | Descriptive Geom. and Perspective | 341 | |
| 346 | II | Surveying | 191, 193 | |
| 347 | II | Surveying Fieldwork | | |
| 348 | II | Mapping | 343 | |
| 351 | III | Map Projections | 345 | |
| 352 | III | Surveying (Miners) | 346, 347 | |
| 353 | III | Surveying (Civils) | 346, 347 | |
| 354 | III | Surveying Fieldwork | 346, 347 | |
| 359 | IV | Geodesy | 353 | |
| 360 | IV | Geodetic Laboratory | | 359 |
| 361 | IV | Geodetic Fieldwork | 353, 354 | |
| 400 | IV | Military Science | | |

| No. | Year | PREREQUISITE SUBJECTS | Numbers of Subjects to which subject in 3rd column are prerequisite |
|---|---|---|---|
| 1 | II | Arch.Design A | 2, 7, 8 |
| 2 | III | " " B | 3 |
| 3 | IV | " " C | 4 |
| 4 | V | " " D | |
| 5 | I | Elements of Architecture | |
| 6 | II | Elements of Composition | |
| 7 | III | Theory of Design | |
| 8 | IV | Theory of Planning | |
| 9 | III or IV | Ornament and Decoration | |
| 10 | III or IV | " " | |
| 11 | III or IV | " " | |
| 12 | III or IV | " " | |
| 13 | I | General History (Arts II.) | 15, 16 |
| 14 | II | History of Arch. (Classic) | 17 |
| 15 | III or IV | " " (Mediaeval) | |
| 16 | III or IV | " " (Renaissance) | |
| 17 | V | " " (Modern) | |
| 18 | I | Architectural Geometry I | 1, 19 |
| 19 | III | Architectural Geometry II | |
| 22 | IV or V | Hygiene of Buildings | |
| 23 | IV or V | Heating and Ventilation | |
| 24 | II | Building Construction | 32 |
| 25 | II | Building Details | |
| 26 | II | Architectural Eng. I | 28, 29, 30, 31 |
| 27 | II | Architectural Eng. I (Drafting) | |
| 28 | III or IV | Architectural Eng. II A | |
| 29 | III or IV | Architectural Eng. II A (Drft.) | |
| 30 | III or IV | Architectural Eng. II B | |
| 31 | III or IV | Architectural Eng. II B (Drft.) | |
| 32 | V | Professional Practice | |
| 33 | I | Architectural Drawing | 1 |
| 34 | II | " " | 9, 10, 11, 12 |
| 35 | III | " " | |
| 36 | IV | " " | |
| 37 | V | Historical Drawing | |
| 38 | I | Freehand Drawing | 1, 39 |
| 39 | II | " " | 9, 10, 11, 12, 40 |
| 40 | III | " " | 41 |
| 41 | IV | " " | |
| 42 | IV | Modelling | 43 |
| 43 | V | " | |
| 44 | I | Physics (Arts.) | |
| 45 | I | Physics Lab. (Arts) | |
| 46 | II | Arch. Essay | |
| 47 | III | " " | |
| 48 | IV | " " | |
| 49 | V | " " | |
| 50 | II III IV & V | Summer Work | |

| No. | Year | PREREQUISITE SUBJECTS | Numbers of Subjects to which subjects in 3rd column are prerequisite |
|---|---|---|---|
| 51 | II | General Chemistry (Engineering Students) | 54, 55, 56, 58, 59, 61, 70, 74, 142, 143, 261, 262, 263, 264, 275, 291 |
| 52 | II | General Chemistry Lab. (Eng. Students) | 54, 55, 56, 58, 59, 61, 70, 263, 264 |
| 54 | III | Inorg. Qual. Anal. (Summer Sch.) (Chem. Eng. & Met. Eng.) | |
| 55 | III | Inorg. Qual. Anal. Lab. (Summer Sch.) (Chem. Eng. and Met. Eng.) | |
| 56 | III | Org. Chemistry | 64, 65, 73, 74, 75 |
| 57 | III | " " Lab. | 64, 65, 73, 75 |
| 58 | III | Physical Chem. | 66, 72, 75 |
| 59 | III | Inorg. Qual. Anal. | 71, 75 |
| 60 | III | " " " Lab. | 71, 75 |
| 61 | III | " Quant. Anal. | 67, 68, 69, 77, 279 |
| 62 | III | " " " Lab. | 67, 68, 69, 77, 279 |
| 64 to 75 | IV | Year Subjects | |
| 81 | II | Mat. of Constrn. | 298 |
| 82 | III | Sanitary Science | 102 |
| 83 | II | Mechanics | 86, 87, 92, 97, 100, 224 |
| 85 | III | Highway Engineering | |
| 86 | III | Mechanics | |
| 87 | III | Str. of Materials | 94, 95 |
| 88 | III | " " Lab. | |
| 89 | III | Foundations | |
| 90 | III | Structural Engineering | 91, 96 |
| 91 | IV | Year Subject | |
| 92 | III | Railway Engineering | |
| 93 | III | " " | |
| 94 to 96 | IV | Year Subjects | |
| 97 | III & IV | Hydraulics | 101, 102 |
| 98 | III & IV | " Lab. | 101, 102 |
| 99 to 104 | IV | Year Subjects | |
| 111 | III & IV | Elem. Elec. Eng. | |
| 112a | III & IV | Elec. Eng. Lab. (Elem.) | |
| 113 | III | Elec. Eng. | 117, 118, 123, 124 |
| 114 | III | Elec. Eng. Lab. | 117 |
| 117 to 124 | IV | Year Subjects | |
| 131 | I | English Composition | |
| 132 | II | English Summer Reading | |
| 133 | III | Summer Reading | |

| No. | Year | PREREQUISITE SUBJECTS | Numbers of Subjects to which subjects in 3rd column are prerequisite |
|---|---|---|---|
| 134 | IV | Year Subject | |
| 141 | III | Geology, General | 146, 147, 148, 149, 152, 153, 294 |
| 142 | III | Mineralogy | 147, 151, 152, 153 |
| 143 | III | Mineralogy (Determinative) | 147, 152, 153 |
| 146 to 153 | IV | Year Subjects | |
| 171 | III | Economics | 172 |
| 172 | IV | Eng. Economics | |
| 175 | IV | Eng. Law | |
| 191 | I | Geometry | 218, 346 |
| 192 | I | Algebra | 198, 218 |
| 193 | I | Trigonometry | 346 |
| 194 | I | Mechanics | 83, 218 |
| 197 | II | Anal. Geometry | |
| 198 | II | Calculus | 86, 87, 111, 111a, 113, 201, 229 |
| 201 | III | Calculus | 117 |
| 211 | I | Mechanical Drawing | |
| 212 | I | Carpentry and Wood Turning | 235 |
| 213 | I | Smith Work | 233 |
| 214 | I | Foundry | 234 |
| 215 | I | Shop Methods | |
| 218 | II | Mechanics of Machines | 224 |
| 220 | I | Machine Shopwork | 236 |
| 221 | II | Shop Processes | |
| 223 | III | Mech. Eng. Lab. (Elec. Eng. Course) | |
| 224 | III | Mech. of Machines | 240 |
| 225 | III | Machine Design | 241, 242, 243 |
| 226 | III | Mech. Eng. (General Course) | 297, 298 |
| 227 | III | " " (Mech. Eng. Stds.) | 244, 245, 246, 247, 249, 249a, 257 |
| 228 | III | " " Lab. | 249, 249a, 251, 257 |
| 229 | III | Thermodynamics | 251 |
| 231 | III | " (Mech. Eng. St.) | 241 |
| 232 | III | " (Elec. " ") | 122 |
| 233 | III | Smith Work (Summer Sch.) | |
| 234 | III | Foundry Work (Summer Sch.) | |
| 235 | III | Pattern Making | |
| 236 | III | Machine Shopwork | 252 |
| 237 | III | Industrial Engineering | 254 |
| 238 | III | Accounting | 254 |
| 240 to 257 | IV | Year Subjects | |
| 261 | III | Elem. Metallurgy & Lab. | 271, 272, 274, 277, 278 |
| 262 | III | Elem. Metallurgy (Chem. Eng. Course) | |

| No. | Year | PREREQUISITE SUBJECTS | Numbers of Subjects to which subjects in 3rd column are prerequisite |
|---|---|---|---|
| 263 | III | Fire Assaying | 273 |
| 264 | III | Fire Assaying Lab. | 306 |
| 265 | III | Metal. Calculations | 278 |
| 267 to 282 | IV | Year Subjects | |
| 291 | III | Mining Eng. | 297 |
| 292 | III | Ore Dressing and Lab. | 305 |
| 293 | III | Mine Mapping | |
| 294 | III | Mining Field School | |
| 295 | III | Crushing and Grinding Machinery | |
| 297 & 298 | IV | Year Subjects | |
| 299 | IV | Ore Dressing and Milling | 298 |
| 300 | IV | Ore Dressing Lab. | 298 |
| 301 & 306 | IV | Year Subjects | |
| 311 | I | Physics | 51, 52 |
| 312 | I | Physical Lab. | 51, 52 |
| 315 | II | Physics | 111, 111a, 320, 299 |
| 316 | II | Physical Lab. | 111, 111a, 320 |
| 320 | IV | Physics (Elec. Eng.) | |
| 321 | IV | Physical Lab. (Elec. Eng.) | |
| 341 | I | Desc. Geom. | 345 |
| 342 | I | Freehand Drawing | |
| 343 | I | Lettering | 348 |
| 345 | II | Desc. Geometry and Perspective | 351 |
| 346 | II | Surveying | 92, 293, 352, 353, 354 |
| 347 | II | Surveying Fieldwork | 92, 352, 353, 354 |
| 348 | II | Mapping | 92, 293 |
| 351 | III | Map Projections | |
| 352 | III | Surveying (Miners) | |
| 353 | III | " (Civils) | 359, 361 |
| 354 | III | " Fieldwork | 361 |
| 359 to 400 | IV | Year Subjects | |

# EXAMINATION TIME TABLES.

## I.—Supplemental Examinations.

Supplemental examinations for all subjects of the First, Second and Third Years Applied Science are held in September. A schedule of these examinations may be obtained from the Dean.

## II.—Sessional Examinations.

Note:—The following numbers correspond with the subjects in the prerequisite list and the departmental descriptions. Examinations begin at Nine A.M. and Two P.M., and normally last three hours.

Time Table, First Term Examinations (Subject to Revision).

| Date | | First Year | Second Year | Third Year | Fourth Year |
|---|---|---|---|---|---|
| January 14th | A.M. | .... | .... | 9, 82, 261, 351 | 9, 91, 300, 359 |
| " " | P.M. | .... | .... | .... | 70 |
| January 15th | A.M. | 191 | .... | 58, 86 | 67, 120, 149, 275 |
| " " | P.M. | 13 | 197 | .... | .... |
| January 16th | A.M. | .... | .... | 97, 265, 295, 352 | 97, 100, 103 |
| " " | P.M. | 44 | .... | .... | 172 |
| January 17th | A.M. | .... | .... | 59, 61 | 22, 68, 71, 104, 124, 148a |
| " " | P.M. | .... | .... | .... | .... |

SECOND TERM TIME TABLE EXAMINATIONS (Subject to Revision)

(First three years in Engineering and the whole course in Architecture)

| DATE | | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH AND FIFTH YEARS |
|---|---|---|---|---|---|
| April 15th | A.M. | .... | .... | 56, 85, 142, 224, 238 | .... |
| " " | P.M. | 18, 341 | 19, 345 | .... | 17 |
| April 16th | A.M. | .... | 81 | 90, 201 | .... |
| " " | P.M. | 193 | .... | .... | 23 |
| April 17th | A.M. | .... | 51 | 10, 171 | 10 |
| " " | P.M. | 131 | 6, 52 | 7, 237, 291 | 7, 32 |
| April 18th | A.M. | 5 | 26 | 88 | .... |
| " " | P.M. | .... | 315 | .... | 175 |
| April 20th | A.M. | 44, 311 | .... | 30, 87 | 30 |
| " " | P.M. | .... | 346 | .... | .... |
| April 21st | A.M. | 192 | .... | 16, 226, 227 | 4, 16 |
| " " | P.M. | .... | 83 | .... | 4 |
| April 22nd | A.M. | 13, 215 | 24 | 141, 225 | 4 |
| " " | P.M. | .... | 198 | 141 | 4 |
| April 23rd | A.M. | 194 | .... | 223, 228 | 4 |
| " " | P.M. | .... | 14, 221 | .... | 4 |
| April 24th | A.M. | 33 | .... | 111, 113, 292, 353 | 4 |
| " " | P.M. | .... | 218 | 61 | 4 |
| April 25th | A.M. | .... | .... | 89, 229, 263 | 4 |
| " " | P.M. | .... | .... | .... | 4 |

SECOND TERM EXAMINATIONS (Subject to Revision).

| DATE | | FOURTH YEAR |
|---|---|---|
| May 4th | A.M. | 175 |
| " " | P.M. | 75, 237 |
| May 5th | A.M. | 123, 152, 244, 279 |
| " " | P.M. | 151, 272 |
| May 6th | A.M. | 64, 117, 247, 271 |
| " " | P.M. | 101, 102 |
| May 7th | A.M. | 73, 95, 251, 254 |
| " " | P.M. | 122, 148 |
| May 8th | A.M. | 69, 94, 240, 253, 320 |
| " " | P.M. | 146 |
| May 9th | A.M. | 72, 121, 249, 249a |
| " " | P.M. | 111, 147, 299 |
| May 11th | A.M. | 278, 298 |
| " " | P.M. | 66, 96, 242, 243 |
| May 12th | A.M. | 74, 297 |
| " " | P.M. | 99, 275, 276 |
| May 13th | A.M. | 67, 111a, 257 |
| " " | P.M. | .... |

## III.—THE LECTURE TIME TABLES.

Complete time tables for all lectures and laboratory work are bulletined in the Engineering Building, and copies may be obtained from the Dean of the Faculty.

# FACULTY OF MEDICINE.

## HISTORICAL SUMMARY.

(Medical Faculty).

1821-1924.

1744 James McGill, born October 6th (Founder's Day). Died 1813.

1801–02 Royal Institution for Advancement of Learning contemplated by Provincial Act of Parliament.

1811 Will by James McGill leaving landed estates and £10,000 to Royal Institution for Advancement of Learning for founding a University.

1818 Royal Institution for Advancement of Learning incorporated.

1821 Charter granted to McGill University. Corner-stone of Montreal General Hospital laid.

1822–24 Montreal Medical Institution organized as a Medical School by Officers of Montreal General Hospital. At opening lecture at No. 20 St. James Street there were four teachers and twenty-five students.

1829 Estate of James McGill surrendered by residuary legatee. First meeting of Governors at Burnside House. Montreal Medical Institution "engrafted upon" McGill University as its Medical Faculty. First session of Faculty of Medicine.

1831 Medical Faculty petitioned Legislature for permission to grant degrees, and framed statutes to fulfil conditions of charter for same by order of Solicitor-General.

1832 Statutes approved and permission to confer degrees granted to Medical Faculty, and Professorships granted by Crown to Drs. Holmes, Caldwell, Robertson and Stephenson.

1833 First University degree granted by Medical Faculty upon W. Logie.

1836–37 Faculty removed to building next to present Bank of Montreal.

1840 Faculty removed to St. George Street.

1842 Arts Building erected on University grounds, where medical lectures were held 1845-51.

1852 Sir William Dawson appointed Principal.
Faculty removed to Coté Street.

1860 Geo. W. Campbell appointed Dean, serving till 1882.

1872 First independent Medical Faculty building on University ground.
Graduation of William Osler.

| | |
|---|---|
| 1882 | Geo. W. Campbell Memorial Fund for Medical Faculty. |
| | Leanchoil Endowment Fund for Medical Faculty (Lord Strathcona). |
| | R. P. Howard appointed Dean. |
| 1885 | New laboratories erected in Medical Building (Lord Strathcona). |
| 1889 | Robert Craik appointed Dean—George Ross—Vice-Dean. |
| 1893 | Sir William Peterson appointed Principal. |
| | Pathological Laboratory erected (John H. R. Molson). |
| | Chairs of Hygiene and of Pathology endowed (Lord Strathcona). |
| | Mrs. Mary Dow Endowment Fund presented to Medical Faculty. |
| 1894 | Royal Victoria Hospital opened (Lord Mount-Stephen and Lord Strathcona). |
| 1898–01 | Medical Faculty Building reconstructed and enlarged with new laboratories, etc. (Lord Strathcona). |
| | Joseph Morley Drake Chair of Physiology founded. |
| 1901 | Thomas G. Roddick appointed Dean. |
| 1906 | Alexandra Hospital for Infectious Diseases opened. |
| 1907 | Medical Building partly destroyed by fire. |
| 1908 | F. J. Shepherd appointed Dean. |
| 1909–11 | New Medical Building (as at present) erected. (Lord Strathcona). |
| 1911 | Robert Reford endowment of Department of Anatomy. |
| | Arthur A. Browne Memorial Fund for Research established. |
| | Dr. James Douglas lectureship in Pathology founded. |
| | Dr. James Douglas lectureship research fellowship in Pathology founded. |
| 1912 | Eddie Morrice Laboratory of Pharmacology opened (D. Morrice). |
| | James Cooper Endowment Fund established for Internal Medicine. |
| 1914 | H. S. Birkett appointed Dean. |
| | No. 3 General Hospital organized for Overseas service. |
| | New Foundling Hospital opened. |
| 1916 | Ross Memorial Pavilion opened by H.R.H. Duke of Connaught. |
| 1917 | Geo. Ross Endowment Fund for Medical Faculty presented. |

1919 Sir William MacDonald bequeathed $100,000 to Medical Faculty.

1919 Sir Auckland Geddes appointed Principal.

1920 Sir Arthur Currie appointed Principal.

Dr. J. W. Scane appointed Assistant Dean.

1921 Centenary Celebration.

Friends and Graduates of McGill donated $4,000,000 to University.

Province of Quebec donated $1,000,000 to University.

Rockefeller Foundation granted $1,000,000 to Medical Faculty.

F. G. Finley appointed Dean.

1922 Laboratories for Biological Sciences opened.

Geo. E. Armstrong appointed Dean.

New Outpatient Department erected at Royal Victoria Hospital.

1923 Pathological Institute erected.

C. F. Martin appointed Dean.

1924 Rockefeller Foundation gave $500,000 to Medical Faculty to establish University Clinic in Department of Medicine at Royal Victoria Hospital.

## ENTRANCE REQUIREMENTS.

A candidate for admission to the First Year in the Faculty of Medicine must present satisfactory evidence that he has completed two full years in the Faculty of Arts of any recognized University, or its equivalent, including lectures and laboratory work in:—

**Chemistry (inorganic and organic),** two years.

**Physics,** one year.

**Biology,** one year.

Courses specially designed to meet these requirements are offered in the Faculty of Arts of this University, where a student may take the two years of study required, or, if qualified (by Senior Matriculation or otherwise) may enter the Scond Year, which comprises courses in Chemistry, Physics and Biology especially suited to the needs of prospective students in Medicine.

*Intending students who wish to enter by certificate should under no circumstances come to the University without having obtained from the Registrar a statement of the value of the certificates they hold, as many of these may lack one or more essential subjects, or the work done in a subject may not be adequate, or, again, the percentage gained may not be sufficiently high. When a diploma or certificate does not show the marks obtained in the several subjects of the examination, it must be accompanied by an official statement containing this information.*

### APPLICATION FOR ADMISSION.

Applications for admission to the Faculty of Medicine should be addressed to the Registrar of the University, and should be accompanied by:—

1. An official transcript of the applicant's high school and college record, showing that he has fulfilled the entrance requirements of the Faculty.
2. Two letters of recommendation as to character and general fitness, preferably from teachers of the pre-medical sciences under whom he has studied.
3. A small unmounted photograph of the candidate.

The number of students in each class is limited and applications will be received up to August 1st.

If the applicant be accepted he will be expected to pledge himself to enter the Faculty of Medicine in September; otherwise his place will be given to another eligible candidate.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

## APPLICATION FOR EQUIVALENT STANDING.

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit to the Secretary of the Faculty an official statement of his preliminary education and of the course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

## EXAMINATIONS.

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

Class examinations are held during the session in each of the First Year subjects, the marks therefor being added to the total marks obtained at the final examinations.

Any student of the First Year whose work at the end of the first term is judged to have been unsatisfactory may be asked to leave the University.

If the standing obtained by any student in the class examinations is not satisfactory, he shall not be permitted to take the final examinations.

A minimum of 50 per cent. in each subject is required to pass.

The work of one session must be completed and all examinations passed before a student is permitted to advance to the next.

Students who fail at the regular examinations in not more than two subjects may, at the discretion of the Faculty, be allowed to take the supplemental examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the session.

Students who fail to pass in a subject in which practical work is required may, at the discretion of the examiner, be required to repeat the course and furnish a certificate of attendance thereon.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplemental examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional hospital attendance or laboratory work before presenting himself for examination.

A student who, after being registered in the First, Second, Third or Fourth Year for two successive sessions, fails to qualify for advancement, or who, after being registered in the final year for two successive sessions, fails to qualify for the degree, shall not be permitted to register again as a student of Medicine in the University.

Applications for supplemental examinations must be in the hands of the Secretary of the Faculty at least three days before the day set for the beginning of the examination, and they must be accompanied by a fee of $5.00 for each subject. This fee is payable to the Bursar.

## REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University, must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all of the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for five full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University.

3. No one shall be permitted to become a candidate for the degree who shall not have attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the five years of the Medical course.

5. He must have attended during at least twenty-four months the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have reported at least ten medical and ten surgical cases.

6. He must also have attended during one full session the practice of the Montreal Maternity or other lying-in hospital approved by the University, and have acted as assistant for at least twenty cases.

7. Every candidate must also have administered, under direction, at least six anæsthetics and have assisted at not less than six autopsies.

8. The following oath or affirmation will be exacted from the candidate before receiving his degree:—

Ego, A—— B——, Doctoratus in Arte Medica titulo jam donandus, Sancto coram Deo cordium scrutatore, spondeo:—me in omnibus grati animi officiis erga hanc Universitatem ad extremum vitæ halitum persevaturum; tum porro artem medicam caute, caste et probe exercitaturum et, quod in me est, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum; quæ denique inter medendum visa vel audita silere conveniat, non sine gravi causa vulgaturum. Ita præsens mihi spondenti adsit Numen.

## REQUIREMENTS FOR LICENSE TO PRACTISE.

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements and in many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in the several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a license to practise can be obtained. In order that disappointment and loss of time may be avoided upon graduation it is, therefore, strongly advised that students should register with the licensing body of their home province before beginning their medical course. In any case they must be registered not later than the end of the First Year.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC.—Dr. J. Gauvreau, 364 St. Catherine Street E., Montreal.

ONTARIO.—Dr. H. Wilberforce Aikins, 170 University Ave., Toronto. Ont.

NEW BRUNSWICK.—Dr. J. S. Bentley, 138 Charlotte Street, St. John, N.B.

NOVA SCOTIA.—Dr. W. H. Hattie, Halifax, N.S.

PRINCE EDWARD ISLAND.—Dr. James Warburton, Kent Street, Charlottetown, P.E.I.

NEWFOUNDLAND.—Dr. T. Mitchell, St. John's, Nfld.

MANITOBA.—Dr. J. E. Coulter, 604 Boyd Bldg., Winnipeg, Man.

ALBERTA.—Dr. George R. Johnston, Calgary, Alta.

SASKATCHEWAN.—Dr. A. MacG. Young, Saskatoon, Sask.

BRITISH COLUMBIA.—Dr. A. P. Proctor, Vancouver, B.C.

### DOMINION REGISTRATION.

In order to take the examination of the Medical Council of Canada a candidate must have the license of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of said province.

Full information may be obtained by writing to the Registrar, Dr. R. W. Powell, 180 Cooper Street, Ottawa, Ontario.

### GENERAL COUNCIL OF MEDICAL EDUCATION AND ENREGISTRATION OF GREAT BRITAIN.

The Matriculation Examination in Medicine of this University is accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a license from the General Council it is necessary to pass one of the examining boards of Great Britain in both primary and final subjects.

Detailed information may be obtained from one of the three registrars: Henry E. Allen, B.A., 299 Oxford Street, London; James Robertson, 54 George Street, Edinburgh; Richard J. E. Roe, 35 Dowson Street, Dublin.

### RECIPROCITY WITH GREAT BRITAIN.

The General Council of Medical Education and Enregistration of Great Britain has entered into reciprocal relations with the Medical Boards of the Provinces of Quebec, Ontario, Nova Scotia, New Brunswick, Prince Edward Island, Saskatchewan, Manitoba, and Alberta. A holder of a degree in Medicine of McGill University who has obtained the license of the Province of Quebec, may register with the Medical Council of Great Britain, and will be able to practise in Great Britain, South Africa, Australia, India and the West India Islands without further examination.

# UNDERGRADUATE COURSES.

## 1. THE MEDICAL COURSE.

The course leading to the degree of M.D., C.M., consists of five sessions of eight months each, the subjects being arranged as follows:—

### First Year.

| | |
|---|---|
| Anatomy | 360 hours |
| Histology and Embryology | 180 " |
| Chemistry | 120 " |
| Physiology | 150 " |
| General Physiology | 60 " |

### Second Year.

| | |
|---|---|
| Anatomy (including organogenesis) | 360 hours |
| Biochemistry | 240 " |
| Physiology | 180 " |
| Bacteriology | 120 " |
| Parasitology | 25 " |
| History of Medicine | 15 " |

### Third Year.

| | |
|---|---|
| Medicine | 150 hours |
| Surgery | 150 " |
| Pathology | 150 " |
| Pathological (Clinical) Chemistry | 60 " |
| Clinical Microscopy | 60 " |
| Hygiene | 90 " |
| Pharmacology | 150 " |
| Psychology | 30 " |

### Fourth Year.

| | |
|---|---|
| Medicine (including Pediatrics, Neurology, Psychiatry and Dermatology) | 350 hours |
| Surgery (including Orthopedic Surgery and Urology) | 300 " |
| Obstetrics and Gynæcology | 60 " |
| Pathology | 90 " |
| Clinical Therapeutics | 30 " |
| Medical Jurisprudence | 40 " |

**Fifth Year.** (Hospital Year.)

The session is divided into three trimesters of nine weeks each and a final Optional Period of four weeks (during the month of April).

During the three trimesters the time is devoted almost entirely to hospital work, the students acting as clinical clerks and concentrating in Medicine in one trimester, in Surgery in another and in Obstetrics, Gynæcology and the specialties in a third. At the end of each trimester there is a clinical examination.

Theatre clinics in Medicine and Surgery are attended by all students throughout the whole session.

During the last four weeks of the session the work of the student will depend upon the standard he has attained in the trimester clinical examinations.

(a) Those students who have made seventy per cent. in these examinations, while carrying the theatre clinics in Medicine and Surgery will be permitted to choose two subjects from the optional courses which are offered during this period. Each course will occupy about two hours a day during the four weeks. No examination will be held.

(b) Those students who fail to obtain seventy per cent. in the trimester clinical examinations will be required, in addition to the theatre clinics in Medicine and Surgery, to pursue further work in the regular sessional subjects, especially in those subjects in which they are weak.

## 2. DOUBLE COURSES IN ARTS AND MEDICINE.

### B.A., M.D.

The degrees of B.A. and M.D. may be obtained in eight years.

The first three years are taken in the Faculty of Arts, Physics being taken in the First Year, Chemistry 1 in the Second Year and pre-medical Biology and Chemistry in the Third. This is followed by the regular five-year course in the Faculty of Medicine, the B.A. Degree being granted on completion of the first medical year.

### B.Sc. M.D.

The degree of B.Sc. and M.D. may be obtained in eight years. Students who wish to proceed to advanced work in physiology, biological chemistry, pharmacology or allied subjects can qualify by taking the first four years of this course.

### First Year.

**English 1 and 2, German 3, Mathematics 1 *or* 2.**
**Physics 1, Chemistry 1, French 12.**

**Second Year.**

**German 4** *or* **French 2, Physics 2, Botany 1.**

**Zoology** (premedical), **Chemistry 3.**

**Third Year.**

**Chemistry 2 and 4, General Physiology** (as in First Year Medicine).

**Zoology 4 and 7, Physics 3A, Botany 4.**

**Histology and Embryology** (as in First Year Medicine).

**Fourth Year.**

**Chemistry 7 and 10, Anatomy** (as in First Year Medicine) *or* **Special Advanced Biology.**

**Physiology** (as in First Year Medicine).

### 3. COURSE LEADING TO DEGREE OF BACHELOR OF SCIENCE IN MEDICINE.

The requirements for this degree are as follows:—

1. Honour standing in the examinations in any two of the following subjects:—Anatomy (including Histology and Embryology), Physiology, Biochemistry, Pharmacology and Pathology.

2. In addition to the regular undergraduate courses in Medicine, 240 hours of specialized study in a third one of these subjects, under the guidance of the department concerned and approved by the B.Sc. (Med.) Committee. In the examinations in the special subject honour standing will be exacted.

Candidates are strongly recommended to acquire a reading knowledge of both German and French, and their attainments, as shown by their record in the class lists in the undergraduate course, must be distinctly above those of the average student.

# COURSES OF INSTRUCTION.

## PHYSICAL EDUCATION.

DIRECTOR:—ARTHUR S. LAMB.
UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.

All students on entering the University are required to pass a physical examination. They are then divided, according to the result of this examination, into five classes:—

(*a*) Fit for all forms of physical exercise.
(*b*) Fit for a limited number of forms.
(*c*) Fit for gymnasium work only.
(*d*) Fit for remedial gymnastics or temporarily unfit.
(*e*) Unfit for any form of physical exercise.

At the time of his medical examination each student is required to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless debarred for medical reasons, under which circumstances he will be given a further choice among other recognized but less strenuous forms of exercise or will do gymnasium work as the case may require.

Physical education is compulsory for all students of the first two years. Two periods per week will be devoted to it.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the respective Faculties.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on

the recommendation of his Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session, the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

## ORGANIC CHEMISTRY.

PROFESSOR:—R. F. RUTTAN.
ASSOCIATE PROFESSOR:—N. N. EVANS.
DEMONSTRATORS:—G. W. HOLDEN. C. SIVERTZ. W. W. THOMPSON. F. H. YORSTON.

Instruction in General and Organic Chemistry for students in Medicine will, in future, be required for entrance to the Medical course and will, therefore, be given in the Pre-medical years. However, during the Session 1924-25 a short introductory course of three lectures per week in organic chemistry will be given during the first term. This forms a preparatory course leading up to the more complete study of organic substances of biological importance during the second term in the course on biological chemistry.

## GENERAL PHYSIOLOGY.

PROFESSOR:—FRANCIS E. LLOYD.
ASSISTANT PROFESSOR:—GEO. W. SCARTH.

On the structure, properties and behaviour of protoplasm. Sixty hours during the First Year.

*Reference books:*—Verworn, General Physiology (translation by Lee); Bayliss, Principles of General Physiology; Bechhold, Colloids in Biology and Medicine (translation by Bullowa); McClendon, Physical Chemistry of Vital Phenomena.

## ANATOMY.

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.
ASSOCIATE PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.
ASSISTANT PROFESSOR OF ANATOMY:—I. MACLAREN THOMPSON.
ASSISTANT PROFESSOR OF HISTOLOGY:—F. SLATER JACKSON.
LECTURER IN HISTOLOGY:—W. M. FISK.
LECTURER IN CHARGE OF DENTAL STUDENTS:—H. E. MACDERMOT.
SENIOR DEMONSTRATOR (in Charge of Dissecting Room):—
A. D. CAMPBELL.
DEMONSTRATOR IN HISTOLOGY AND EMBRYOLOGY:—IVAN PATRICK.

DEMONSTRATORS:
- F. J. TEES.
- L H. MCKIM.
- H. BRUCE MALCOLM.
- G. A. FLEET.
- J. G. W. JOHNSON.
- A. ROSS.
- F. N. K. FALLS.
- A. J. MARTIN.
- N. T. WILLIAMSON.
- T. M. RICHARDSON.

PROSECTOR:—MR. WILLIAM MUIR.

The student begins the study of Anatomy in the First Year of his course, and during this and the Second Year the whole body is dissected twice. The aim of this part of the course is to establish the essential foundations upon which the practice of medicine and surgery is based; the importance of the application to the living body of the knowledge gained in dissection is, therefore, emphasized throughout. During the Third and Fourth Years the subject is considered from the standpoint of its clinical bearing. Close co-operation between the anatomical, histological and embryological parts of the course is maintained during the whole four years.

### First Year.

1. **Elementary Anatomy:**—The student dissects the whole body, including the brain, aiming at a general knowledge of the form and relations of the systems and organs without detailed consideration. Stress is laid upon the importance of function in determining form and structure, and the osteology and surface anatomy are studied concurrently. Whole session 330 hours

*Text-books:*—Gray's "Anatomy" (English edition); Walmsley's "Practical Anatomy."

**2. Histology and Embryology:**—A course of lectures and practical work on the general problems of development and on the early stages of development of the human embryo and a detailed study of the microscopic structure of the tissues and organs of the human body. Whole session, 180 hours.

*Text-book:*—Jordan, "Text-book on Histology."

*Reference books:*—Kellicott, "Text-book of General Embryology"; Bailey and Miller; Prentiss and Arey, "Text-book of Embryology."

**Second Year.**

**3. Advanced Anatomy:**—The whole body is dissected for the second time and in detail. In this year regional and cross-section anatomy receive special attention and, in correlation with course 4, the nervous system and sense organs are further studied.
Whole session, 360 hours.

*Text-book:*—Gray's "Anatomy" (English edition).

**4. Organogenesis:**—The development of the organs and systems of the human body, co-ordinating with course 3.
Whole session, 60 hours.

*Text-book:*—Bailey and Miller "Text-book of Embryology."

*Reference:*—"Reference Handbook of Medical Sciences," new edition, 1922, Keibel and Hall.

**Third Year.**

**5. Surgically Applied Anatomy:**—This course is given in January and February, immediately preceding the course in Operative Surgery on the cadaver, which is conducted in the dissecting room by the Department of Surgery. Second trimester, 30 hours.

*Dictionary:*—Every student is advised to provide himself with a good medical dictionary as an essential part of his text-book equipment. Any one of the following may be recommended:—Stedman, Dorland, Gould, Lippincott's, American.

## Post-Graduate Study.

Material and preparations for post-graduate study are always available, and a special effort will be made to assist graduates in the investigation of any part of the subject in which they are interested.

### Physical Anthropology.

The Department is prepared to give a course of special instruction in the methods and application of this subject.

### Dental Anatomy.

Details of the courses in Anatomy and Histology for dental undergraduates and graduates will be found in the Announcement of the Faculty of Dentistry.

## PHYSIOLOGY.

THE JOSEPH MORLEY DRAKE PROFESSOR AND DIRECTOR OF EXPERIMENTAL MEDICINE:—JOHN TAIT.

ASSISTANT PROFESSOR:—N. GIBLIN.

LECTURERS:— F. GREEN. G. J. CASSIDY.

DEMONSTRATOR:—W. F. EMMONS.

COOPER RESEARCH SCHOLARS IN EXPERIMENTAL MEDICINE:—

H. E. BURKE. A. R. ELVIDGE.
M. F. CASHIN. W. J. MCNALLY.

In this department special provision is made not only for undergraduate but also for graduate instruction. There are full courses in Physiology proper for all undergraduates. For graduate purposes Physiology has been linked up with Experimental Medicine, and the department, working in intimate association with the hospital wards, forms the headquarters for research in clinical problems along instrumental or "experimental" lines. At the same time the available graduate instruction is not confined to the immediate medical applications of Physiology, provision being made for dealing with the science in some of its wider biological implications.

### A. UNDERGRADUATE COURSES IN PHYSIOLOGY.

**First Year.**

1. *Lectures:*—In this course, which coincides with the instruction in elementary anatomy and histology, the simple uses of the various parts of the body are expounded in relation to minute structure and in terms of experiment.

2. *Laboratory:*—Students work in pairs. The course comprises experiments on blood, on connective and epithelial tissue, on muscle, nerve, heart, blood-vessels and central nervous system. Frog material is largely used for the latter part of this course.

*Class book:*—Schäfer's "Experimental Physiology."

**Second Year.**

3. *Lectures:*—With a view to medical applications the subject-matter of the previous lectures is reviewed in greater detail, the inter-relations of parts being brought out by consistent cross-reference. On suitable occasion comparative as well as historical methods of treatment are adopted. The intrinsic mechanism apart from the simple uses of individual elementary structures is subjected to preliminary discussion, while the phenomenon of regulation is also presented with examples.

*Text-books:*—Howell, Stewart, Starling.

4. *Laboratory:*—Students work for the most part in groups. The course includes mammalian operative work, and also observations on the human subject with clinical and other apparatus.

*Class book:*—Sherrington's "Mammalian Physiology."

5. *Hospital Clinics:*—Along with the formal instruction in physiology, clinical demonstrations are given in the hospital theatres on patients. The object of these demonstrations is to show the relation of physiology to symptoms of disease in the human subject.

B. Graduate Instruction in Physiology and in Experimental Medicine.

Some of the following courses, which were originally designed for B.Sc. (Med.), for M.A. for M.Sc. and for Ph.D. candidates, are open to Honours optional students (as a reward for special application to study) and to the clinical teachers of the school.

6. *Special Lectures in Physiology:*—In this course, adapted to meet the requirements of clinicians, particular aspects of physiology are selected from year to year for special treatment. The lectures are opn to clinical teachers, to Honours and to graduate students.

7. *Physiological Clinics:*—These are bedside lectures and demonstrations conducted in connection with Experimental Medicine. The cases which form the basis of these clinics are prepared by the Scholars in Experimental Medicine.

8. *Blood and Circulation:*—This course includes lectures, laboratory work and demonstrations. The following questions receive consideration:—Life-history of the corpuscles, hæmoglobinometry, hæmocytometry, hæmolysis, blood transfusion, coagulation and arrest of hæmorrhage, cytology of the cerebro-spinal fluid, methods of recording pulse and blood pressure, electrocardiography and experiments on the excised heart and vessels.

9. *Structure and Function:*—This course includes a review of modern work in biology in which structure, whether of the developing or of the adult animal, has been investigated by experimental means. The aim is to show the scope and place of physiology and of physiological method in relation to such problems. A special study is made of structural adaptations to physically new environment.

10. *Physiological Colloquium:*—This meets weekly and is limited to those engaged in research in the department.

11. *Tutorial Class:*—This class is held in connection with advanced graduate reading.

### RESEARCH WORK.

For particulars and facilities relating to research work in physiology and experimental medicine, and for subjects of theses required in connection with the degree of M.A., M.Sc., Ph.D. and D.Sc., application should be made to the professor. See also Announcement of the Faculty of Graduate Studies and Research.

### STUDENTS' PHYSIOLOGICAL SOCIETY.

Both undergraduate and graduate students will find it of advantage to become members of the Students' Physiological Society. In addition to the privilege of hearing from time to time addresses on special departments of the subject, members are entitled to consult and to borrow books of the library of the Society, which contains many standard text-books and special works.

## BIOCHEMISTRY AND PATHOLOGICAL CHEMISTRY.

PROFESSOR:—A. B. MACALLUM.

ASSISTANT PROFESSOR:—J. F. LOGAN.

DEMONSTRATORS:— H. L. CAMERON. J. C. FORBES.

LECTURERS ON PATHOLOGICAL CHEMISTRY:— E. H. MASON. I. M. RABINOWITCH.

There will be given three courses in the Session 1924-5, one of 60 hours in Elementary Biochemistry to the class of the First Year, a second of 240 hours to that of the Second Year, and a third of 70 hours in Pathological Chemistry to the class of the Third Year.

The course in Elementary Biochemistry, which will involve twenty lectures and forty hours of laboratory exercises, will be an introduction to the study of the products of normal living matter, viewed as compounds of Organic Chemistry. Emphasis will be laid on their character as alcohols, aldehydes, acids and esters, on the occurrence and significance of cyclic atom groups in them and on the chief products of their decomposition.

The course for the Second Year will be given throughout the session and will involve three lectures and six hours of laboratory exercise per week. It will cover an advanced course of that given in the First Year and it will also include an extensive discussion and treatment of (a) the origin, character, and the active properties of the various ferments of the digestive tract; (b) the chemical and physical processes involved in, and the products resulting from, the digestion, absorption and assimilation of the foodstuffs, in the human body; (c) the intermediate and ultimate products of metabolism, and (d) the chemistry of the tissues and of blood, bile and urine.

In the laboratory course the exercises will deal with the practical side of the subjects treated in the lecture course, such as the digestion of starch, fats and proteins, the absorption and assimilation of fats, the metabolism of the carbohydrates absorbed, and of the products of protein digestion. Especial attention will be given to the methods of the qualitative determination of the more important metabolites, such as urea, uric acid, creatine, creatinine, etc.

In addition to the written and practical examination exacted of each student in this course, oral examinations will be held and the results thus obtained will, with those from the written and practical tests, serve to determine the standing of the student in the class list in Biochemistry for the year.

The course in Pathological Chemistry given in the Third Year will involve twenty lectures and fifty hours of laboratory exercises. It will deal with the metabolism in febrile conditions, deficiency diseases, diabetes, nephritis, hepatic disorders, etc. The laboratory exercises will cover the more exact methods of the determination of the constituents of the blood and urine in health and disease. On this course will be based the award of the Sutherland Medal.

*Text-books:*—Cole, "Practical Physiological Chemistry"; Halliburton, "Essentials of Chemical Physiology"; Plimmer, "Practical Organic and Biochemistry"; Folin, "Laboratory Manual of Biological Chemistry"; Hawk, "Practical Physiological Chemistry."

*Reference:*—Robertson, "Principles of Biochemistry"; Von Fürth, "Chemistry of Metabolism"; Bayliss, "Principles of General Physiology."

# PATHOLOGY AND BACTERIOLOGY.

STRATHCONA PROFESSOR:—HORST OERTEL.

ASSOCIATE PROFESSOR OF PATHOLOGY:—L. J. RHEA.

ASSOCIATE PROFESSOR OF PARASITOLOGY:—J. L. TODD.

ASSISTANT PROFESSOR OF BACTERIOLOGY:—A. A. BRUÈRE.

LECTURERS:— C. T. CROWDY. J. W. SCOTT.

LECTURER AND DOUGLAS FELLOW IN PATHOLOGY:—T. R. WAUGH.

ASSISTANTS AND DEMONSTRATORS:— A. L. WILKIE. J. S. HENRY. F. M. BROWN. J. D. McKINNON. P. G. SILVER.

TECHNICAL ASSISTANTS:— E. L. JUDAH, *Preparator.* J. GIROUX, *Shop Assistant.* B. TOMLINSON, *Technician in Pathology.* J. JAMES, *Technician in Bacteriology.*

## PATHOLOGY.

### A. SYSTEMATIC COURSES.

1. The biological foundations of general pathology and pathological anatomy, including infection and immunity; the historic evolution of the conception of disease, its relation to other sciences and to philosophy; the hereditary foundations and the subjective and external causes of disease; the individual development of disease; the anatomic-histological lesions and their biological explanations; general somatic death. Lectures and experimental demonstrations twice weekly throughout the session.

Pathological Institute.....PROFESSOR OERTEL.

2. Laboratory course in general pathological anatomy and histology. Two hours weekly, winter term.

Pathological Institute.....PROFESSOR OERTEL AND DEMONSTRATORS.

3. Special pathology and pathological anatomy; lectures on the diseases of the more important systems and organs, followed by demonstrations. Two hours weekly, throughout the session. Includes the circulatory, hæmotopoietic, respiratory, digestive and renal systems.

Pathological Institute.....PROFESSOR OERTEL AND DEMONSTRATORS.

4. Selected chapters of special pathology with demonstrations, includes the nervous system, bones, joints, glands of internal secretion.
Pathological Institute.....Dr. Crowdy and Dr. Waugh.

5. The diseases of the blood and of the blood-forming organs. Lectures and demonstrations, once weekly, winter term.
Pathological Institute.....Dr. Waugh.

B. PRACTICAL COURSES.

6. Practical Pathology: Demonstrations and discussion of anatomical and bacteriological material in relation to clinical cases.
Montreal General Hospital.....Professor Rhea.

7. Performance of Autopsies.
Pathological Institute.
Professor Oertel, Dr. Crowdy, and Demonstrators.
Montreal General Hospital.
Professor Rhea, Dr. Scott, and Demonstrators.

8. Clinical Pathological Conferences.
Montreal General Hospital.....Clinical and Pathological Staffs.

9. Practical course of Pathologico-anatomical methods and Diagnosis. Once weekly.
Pathological Institute.....Professor Oertel

10. Pathological Research (Open to graduates) by appointment.
Pathological Institute and Montreal General Hospital.
Professors Oertel and Rhea and Dr. Waugh.

11. Pathological Colloquium. Two hours weekly.
Pathological Institute.....Professor Oertel and Staff.

*Reference Books:*—Oertel, General Pathology; Virchow, Cellular Pathology; Cohnheim, Lectures on Pathology; Ziegler, Specielle Pathologie; Delafield and Prudden, Text-book of Pathology; Wells, Chemical Pathology.

## BACTERIOLOGY.

1. Laboratory course in bacteriology, with explanatory lectures and demonstrations, autumn term.
Pathological Institute.
Professor Bruère, Demonstrators and Assistant Demonstrators.

2. Bacteriological and Immunological Research (Open to graduates). Pathological Institute.

PROFESOR OERTEL AND PROFESSOR BRUÈRE, by appointment.

*Reference Books:*—His and Zinsser; Muir and Ritchie; Jordan; McFarland; Mallory and Wright.

GRADUATE COURSES FOR HIGHER DEGREES.

Courses 1, 5 and 10 in Pathology and 2 in Bacteriology are open to graduates for higher degrees and students of other Faculties.

### PARASITOLOGY.

The main feature of this course is a series of twenty-five lectures and demonstrations, illustrated by lantern slides, and by specimens both gross and microscopical. Demonstrations of special methods used in the study of animal parasites are given in the laboratory.

Medical Building.....PROFESSOR TODD.

*References:*—Manson, Tropical Diseases (London, 7th Edition, 1921); Stitt, Practical Bacteriology, Blood Work and Animal Parasitology (Philadelphia, 6th Edition with Clinical Notes, 1921); Chalmers and Castellani, Manual of Tropical Medicine (London, 3rd Edition, 1919); Byam, The Practice of Medicine in the Tropics (London, 1921).

## PHARMACOLOGY.

PROFESSOR:—R. L. STEHLE.

ASSISTANT PROFESSOR OF THERAPEUTICS:—D. S. LEWIS.

LECTURER:—WESLEY BOURNE.

LECTURER IN IMMUNOLOGY:—FRASER B. GURD.

LECTURERS IN PHYSIO-THERAPY:— F. W. HARVEY. NORMAN BROWN.

DEMONSTRATORS:— C. C. STEWART. G. C. ANDERSON.

DEMONSTRATOR IN THERAPEUTICS:—D. GRANT CAMPBELL.

### Third Year.

**Pharmacology:**—Laboratory course correlated with systematic lectures, demonstrations and conferences. The action of drugs and poisons upon normal and abnormal organims is considered. The course includes: general principles (absorption, excretion, mode of action, tolerance, hypersensitivity, synergism, antagonism and relation of chemical

structure to action); etiotropic action (antiseptics and specific chemotherapy); organotropic action (effects of drugs upon nervous, digestive, circulatory systems, etc., individual organs and internal metabolic processes). In addition the chemistry of drugs is considerd in detail and a brief survey of pharmacy is included.

### Fourth Year.

**Therapeutics:**—A systematic lecture course is given on the principles of therapeutics and the applications of drugs in internal medicine, surgery, gynæcology and the specialties. Drs. Lewis and Bourne.

### Fifth Year.

**Clinical Therapeutics:** In co-operation with the Department of Medicine. Ward classes and clinics in the Royal Victoria Hospital and Montreal General Hospital. Dr. Lewis and Dr. D. Grant Campbell.

**Physio-Therapy:** Practical instruction by Dr. Harvey and by Dr. Norman Brown in the out-patient departments of the Montreal General and the Royal Victoria Hospitals.

**Research.**

The department is located on the fifth floor of the new Biological Building and is especially equipped for investigation. Suitably prepared persons may undertake research at any time throughout the year.

*Text-books:*—Cushny, Sollmann, Dixon, Clark.

### HIGHER DEGREES.

Advanced courses leading to the degrees of B.Sc. (Med.), M.Sc., or Ph.D. are arranged to suit individual cases. See Announcement of Faculty of Graduate Studies.

## HYGIENE.

STRATHCONA PROFESSOR:—T. A. STARKEY.

ASSISTANT PROFESSORS:—R. ST. J. MACDONALD. F. B. JONES.

The instruction in hygiene given to the medical undergraduates has been carefully designed to meet the requirements of the practitioner in medicine. It relates chiefly to the investigation of the causes of disease, the channels of transmission and the adoption of modern preventive

measures—all problems which are likely to confront the medical man daily in the prosecution of his duties.

Industrial Hygiene forms part of this instruction, and deals with the study of occupational diseases; insanitary conditions in factories, workshops and other industrial establishments, and any other environment connected with the work which may be likely to undermine the health of the workpeople; work and fatigue; general measures designed to preserve the health of the workmen, and to keep them fit and efficient, both inside and outside the works.

School hygiene forms another part of this course—bringing out the chief points connected with the scope of work and nature of duties of the School Medical Officer, a post so frequently undertaken nowadays by the general practitioner.

Numerous visits of inspection are made by the class to various places and establishments, chosen to illustrate the general principles of sanitation:—Housing and industrial establishments; schools; water and sewage works; refuse destruction; places dealing with food supplies, especially meats and milk; and welfare centres.

The Museum is completely equipped and contains full-sized working models and apparatus illustrative of the application of all hygiene principles.

An optional practical course more advanced than the one above referred to is open to students wishing to go into greater detail.

The laboratory is provided with all apparatus needed in every branch of public health work. Advanced students are furnished with separate quarters and with every facility for the prosecution of research work.

*Text-books:*—Parkes and Kenwood; Notter and Firth; Harrington and Richardson; Roseneau, Park.

**See pages 341 to 343 for advanced and special courses, and qualifications in Hygiene, suitable for Medical Officers of Health, and others engaged in any branch of Public Health Work.**

Lectures are also given by the Department in the Departments of Architecture and Civil Engineering and in the Schools for Graduate Nurses, Social Workers and Physical Education.

## MEDICAL JURISPRUDENCE.

PROFESSOR:—D. D. MACTAGGART.

In this course the criminal and civil aspects of legal medicine are taken up and fully discussed, also lunacy and its medico-legal aspects. Special attention is devoted to the subject of blood stains, the chemical, microscopic and spectroscopic tests for which are fully described and

demonstrated, also the serum test for the detection of human blood. The modes of action of poisons, general evidence of poisoning and classification of poisons are first treated of, after which the more common poisons are described, with reference to symptoms, post-mortem appearance and chemical tests. The post-mortem appearances are fully illustrated by specimens. Injuries are fully discussed, with reference to their significance, under the Workmen's Compensation Act and Accident Insurance.

*Text-books:*—Glaister; Buchanan; Mann. *Reference:*—Peterson and Haines; Taylor.

## MEDICINE AND CLINICAL MEDICINE.

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—JONATHAN C. MEAKINS.

PROFESSORS:—C. F. MARTIN. CAMPBELL PALMER HOWARD. W. F. HAMILTON.

ASSOCIATE PROFESSOR:—A. H. GORDON.

LECTURERS:—C. A. PETERS, H. B. Cushing, A. A. ROBERTSON, J. KAUFMANN, E. H. MASON, D. S. LEWIS, C. F. WYLDE, C. F. MOFFATT, I. RABINOWITCH,

DEMONSTRATORS:—J. G. BROWNE, D. W. McKECHNIE, R. H. M. HARDISTY, D. G. CAMPBELL, A. H. MacCORDICK, E. E. ROBBINS, C. C. BIRCHARD, J. L. D. MASON, D. MacCALLUM, C. R. BOURNE, E. V. MURPHY, A. T. HENDERSON, T. A. MALLOCH, COLIN SUTHERLAND, J. J. WALKER.

ASSISTANT DEMONSTRATORS:—D. L. MENDEL. C. R. JOYCE. J. C. WICKHAM. KEITH GORDON. LORNE MONTGOMERY. J. F. MacIVER.

The object of this course is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy and bio-chemistry with clinical medicine is emphasized—not only in the pre-clinical years but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded by the establishment of a modern university medical clinic at the Royal Victoria Hospital with extensive laboratories for the study of disease in all its phases—further by the excellent clinical facilities at the Montreal General Hospital, as well as by the affiliation with other institutions.

Students must have followed up at least ten cases from their inception to a conclusion and be certified therefor.

**Third Year.**

Instruction is given at the College and in Hospital as follows:

1. A short course of lectures on the general principles of medicine, emphasizing the bearing of earlier studies on clinical work.
2. Lecture demonstrations in the theatre on methods of examination of patients.
3. Practical instruction in groups at the bedside and in the out-patient department (2 weekly).
4. Clinical Microscopy.

**Fourth Year.**

Instruction will consist of:—

1. One didactic lecture weekly throughout the session on special topics of clinical medicine.
2. Two theatre clinics weekly.
3. Ward classes in groups.
4. Attendance in groups in the O.P. Department.
5. Clinico-pathological conferences.

**Fifth Year.**

Hospital year. Each student becomes virtually a member of the externe staff.

He is allotted in turn to various services of the hospital in the capacity of clinical clerk, participating in the keeping of records, the diagnosis and treatment of patients in wards and out-patient departments and in the laboratory duties. He will accompany the physicians in their daily rounds, attend autopsies and report on them to his teachers.

Regular theatre clinics are given only in the major subjects.

With the present limitation of students it becomes possible to give

the student a closer familiarity than hitherto with practical scientific medicine and its allied subjects of neurology, psychiatry and pediatrics.

OPTIONAL COURSES.

Students of the Fifth Year, who have obtained 70 per cent. in the trimester examinations of the clinical subjects in their final year, may select as options two subjects out of the Postgraduate Courses offered during the month of April in lieu of their regular ward work and laboratory instruction. They will, nevertheless, be required to follow the theatre clinics in the major subjects.

No examination will be held in these optional courses.

PEDIATRICS.

CLINICAL PROFESSOR:—H. B. CUSHING.

LECTURERS:—
- F. M. FRY.
- GRAHAM ROSS.
- A. B. CHANDLER.

DEMONSTRATORS:—
- C. F. WYLDE.
- W. E. ENRIGHT.
- L. LINDSAY.
- R. R. STRUTHERS.

ASSISTANT DEMONSTRATORS:—
- H. P. WRIGHT.
- A. GOLDBLOOM.
- W. E. WILLIAMS.
- R. C. STEWART.

Instruction is given in all the clinical years.

An introduction to the subject is presented in the Third Year in the form of a series of clinics to groups of students on the physical examination of infants and children, and the variation of physical signs from those found in the adult.

In the Fourth Year, the instruction is given throughout the year, and is designed to cover the principles of pediatrics. The course consists of didactic lectures and theatre clinics in the hospitals, and deals with the peculiarities and development of children, the principles and theory of infant feeding, the general nursing and care of infants and older children, the diseases peculiar to both, and the differences in the manifestation and treatment of ordinary diseases of adults and children.

In the Fifth Year, the course is entirely clinical and practical; a

series of clinics at the bedside, in the theatre and in the out-patient department is given to small groups of students. Students are required to study personally and to report cases in the various pædiatric clinics, outpatient departments and health centres. Special attention is devoted to practical instruction in infant feeding and the care of the new-born and young infants. In this connection regular ward rounds for groups of students are arranged weekly in the Maternity Hospital.

*Text-books:*—Holt and Howland; Dennett; Feer; Still; Porter and Carter; Morse and Talbot; Koplik.

### NEUROLOGY.

CLINICAL PROFESSOR:—C. K. RUSSEL.
LECTURER:—F. H. MACKAY.
DEMONSTRATOR:—N. VINER.

A course on Applied Anatomy of the nervous system is given in the earlier years of study and students of the First and Second Years are introduced wherever possible to neurological patients who illustrate the anatomy and physiology of the nervous system.

In the Third Year a series of demonstrations is given on clinical methods of examining the nervous system, and some of the commoner diseases are studied.

Lectures and clinical demonstrations on neurology are given in the Fourth and Fifth Years of the course in the wards and theatre.

In the Final Year groups of students are taken into the wards and outpatient departments of the General Hospitals. The Psychiatric Clinic at the Royal Victoria Hospital furnishes examples of the various psychoses, the border line cases, and enables the student to become familiar with forms of mental defect, delinquency and allied conditions. The clinic deals, moreover, with patients sent for investigation from the charitable agencies of the city and co-operates with the work of the Canadian National Committee for Mental Hygiene.

A series of demonstrations on neuro-pathology is given in the laboratory.

### PSYCHIATRY.

CLINICAL PROFESSOR:—C. A. PORTEOUS.
LECTURERS:— G. MUNDIE. W. T. B. MITCHELL.
DEMONSTRATORS:— H. A. SIMS. A. G. MORPHY.

Instruction will be given in the Fourth and Fifth Years.

**Fourth Year.**

A series of Didactic Lectures at the University and Clinical Demonstrations of the commoner psychopathic conditions.

**Fifth Year.**

Clinical instruction in groups:—

1. At the Psychiatric clinic.
2. At the Mental Hospital (Verdun).

In all group instruction the student is taught methods of testing psychopathic cases, and of making detailed diagnoses, while the general and occupational therapy, etc., of such cases is dealt with in detail in the hospital services.

*Text-books:*—"Outlines of Psychiatry," White; "Clinical Psychiatry," Kraeplin; "Psychiatric Neurological Examination Methods," Wimmes Hoisholt; "Diseases of the Nervous System," Jelliffe and White (1923 Ed.).

## PSYCHOLOGY.

ASSOCIATE PROFESSOR:—J. W. BRIDGES.

A short course of lectures is given on General and Abnormal Psychology with special reference to the latter. Discussion will include the psychological principles underlying psychotherapy, relation of abnormal to normal mental life, mental hygiene, mental deficiency, intelligence tests and some reference to the psychology of insanity.

## DERMATOLOGY.

CLINICAL PROFESSOR:—G. G. CAMPBELL.

LECTURER:—W. P. BURNETT.

DEMONSTRATOR:—J. F. BURGESS.

The course is entirely clinical, consisting of a weekly theatre clinic, at the Montreal General Hospital, on specially selected cases, and outdoor clinics, weekly, by Drs. G. G. Campbell, at the Montreal General Hospital, and W. P. Burnett, at the Royal Victoria Hospital, throughout the session. Lantern slides are made use of to illustrate the course; also a large series of coloured plates and photographs.

*Text-books:*—Stellwagon, Walker's Introduction to Derematology, Hartzell, McLeod, Darier, Campbell, Shamberg, Sutton.

## HISTORY OF MEDICINE.

PROFESSOR:—SIR ANDREW MACPHAIL.

A course of fifteen lectures will be given upon the History of Medicine to inform undergraduates in the Faculty upon the progress of the science. It is the intention to examine the causes which produced the varying conceptions of medicine in times past, rather than burden the student with a narration of facts and a recital of biographies.

## SURGERY AND CLINICAL SURGERY.

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—
E. W. ARCHIBALD.

PROFESSOR:—A. T. BAZIN.

ASSOCIATE PROFESSOR:—E. M. EBERTS.

ASSISTANT PROFESSORS:—W. L. BARLOW, C. B. KEENAN.

LECTURERS:—F. A. C. SCRIMGER, F. J. TEES, C. K. P. HENRY.
F. E. MCKENTY, F. B. GURD.

LECTURERS IN ANÆSTHESIA.—W. B. HOWELL, W. G. HEPBURN.

DEMONSTRATORS:—GUY JOHNSON, L. H. MCKIM.

DEMONSTRATOR OF ANÆSTHESIA:—J. W. ARMSTRONG.

ASSISTANT DEMONSTRATORS:—ALBERT ROSS, G. A. FLEET, A. STEWART,
R. B. MALCOLM.

To obtain greater uniformity and a better perspective, the department of Surgery and Clinical Surgery has been placed under one head, who has been given control of the teaching in the wards and out-patient departments of the two large hospitals.

Montreal, situated at the head of ocean navigation, and itself a large railroad and industrial centre, is noted for the large amount and varied character of its clinical material. Indeed, the teaching in surgery is largely clinical and practical. In the Montreal General and Royal Victoria Hospitals there are between five and six hundred beds and also large out-patient departments.

During the Third Year, students are instructed in the out-patient department. They are brought in immediate contact with the patient, and taught how to make an examination, how to get a correct history, how to differentiate the abnormal from the normal, how to apply their

anatomy, to dress wounds, arrange and apply splints, and to reduce the simpler fractures and dislocations. This is a valuable training, as the conditions met in an out-patient department are similar to those that form a considerable part of a practitioner's work.

In this year a course of fifteen lectures on the general principles of surgery will be given.

In the Fourth Year, students attend surgical clinics in the amphitheatre of the hospitals three days in the week. They also attend in the wards of the hospitals in groups. Cases are assigned to them and they are required to examine them carefully, record the conditions found, arrive at a tentative diagnosis, and outline the treatment indicated. A teacher of mature experience and of professorial rank teaches them in the wards and instructs them in groups. During this year a series of thirty didactic lectures will be given upon the main types of disease and injury.

The Fifth is the purely hospital year. There are three amphitheatre clinics in the hospitals, weekly. Group teaching is carried out in the wards. The patients are assigned to the students in rotation and they are expected to make very careful and thorough examinations in the wards, do their own laboratory work under the direction of a supervisor and to study the natural history, prognosis and methods of treatment.

They are to be present when their cases are operated on and to prepare themselves with all the care and detail of the operating surgeon. Opportunities of assisting are afforded, and also of seeing closely the conditions that are found.

Students in this year are required to do a good deal of collateral reading and to make themselves familiar with the anatomy, pathology and physiology of the injury or disease and of the region implicated.

Every encouragement is given to originality and independence of opinion.

Didactic lectures and laboratory demonstrations on anæsthesia are given in the College by the Department of Pharmacology and Therapeutics, and practical instruction in the administration of anæsthetics is given in the hospital to students of the Third and Fourth Years.

*Text-books:*—Operative Surgery—Binnie and Burghard; Surgery—A system of Surgery, C. C. Choyce; Rose and Carless, Thomson and Miles, Keen's Surgery; Russell Howard; Ashurst; Da Costa; Emergency Surgery—Sluss; Surgical Anatomy—Treves and Keith; Davis' Applied Anatomy; Gask and Williams' Text-book of Surgery; Fitzwilliam's Pocket Surgery; The Treatment of Fractures, Scudder; The Principles and Practice of Surgery, Hanbold.

## UROLOGY.

CLINICAL PROFESSORS:— { F. S. PATCH. / D. W. MACKENZIE.

LECTURER:—R. E. POWELL.

DEMONSTRATOR:—M. SENG.

Students attend this department in the Royal Victoria and Montreal General Hospitals for instruction in the methods of diagnosis and treatment of surgical diseases of the urinary and male genital organs and syphilis.

During the Fifth Year they are given a course of fifteen lectures on the elements of the subject in the University, followed by fifteen clinics demonstrating typical cases in the Hospitals.

During the Final Year they receive clinical instruction on groups of cases presented for differential diagnosis, and students are required to discuss these cases and outline the treatment indicated.

Clinical clerkships are assigned in the urological wards, where cases are followed to a conclusion. Opportunity is here afforded for the complete study of a considerable number of cases.

*Text-Book:*—Keyes' Urology.

*Collateral Reading:*—Thompson Walker's Genito-Urinary Surgery; White and Martin's Genito-Urinary Surgery and Venereal Diseases.

## ORTHOPÆDIC SURGERY.

CLINICAL PROFESSORS:— { A. MACKENZIE FORBES. / W. G. TURNER.

LECTURER:—J. A. NUTTER.

DEMONSTRATOR:—W. J. PATTERSON.

Instruction in diseases and injuries of the bones, joints, muscles and the surgery of deformities, both congenital and acquired, is given to the students of the Fifth Year in groups of ten to twelve in the Children's Memorial Hospital, the Royal Victoria and the Montreal General Hospitals.

Each student attends clinics in Orthopædic Surgery at each of these hospitals for four or five consecutive weeks.

The demonstrations given are essentially practical. Every student is expected to write histories of, to make the diagnoses in, and to prescribe the treatment for a definite number of patients.

In the Montreal General and the Royal Victoria Hospitals there are large clinics for both adults and children suffering from orthopædic affections.

In the Children's Memorial Hospital there is a great wealth of clinical material consisting of children who are suffering from the surgical diseases of infancy and childhood.

*Text-books:*—Whitman's Orthopedic Surgery; Fraser on Tuberculosis of Bones and Joints of Children; Tubby and Jones on Surgery of Paralysis; Jones, Orthopedic Surgery of Injuries; Jones and Lovett, Orthopedic Surgery.

## OBSTETRICS AND GYNÆCOLOGY.

PROFESSOR OF OBSTETRICS AND GYNÆCOLOGY:—W. W. CHIPMAN.

CLINICAL PROFESSOR OF GYNÆCOLOGY:—F. A. L. LOCKHART.

ASSISTANT PROFESSOR OF OBSTETRICS AND LECTURER IN GYNÆCOLOGY.
H. M. LITTLE.

LECTURERS IN OBSTETRICS AND GYNÆCOLOGY:—
H. C. BURGESS.
J. R. FRASER.
W. A. G. BAULD.

LECTURERS IN OBSTETRICS:—
J. R. GOODALL.
J. W. DUNCAN.

LECTURER IN GYNÆCOLOGY:—DAVID PATRICK.

DEMONSTRATOR IN GYNÆCOLOGY:—IVAN PATRICK.

DEMONSTRATOR IN OBSTETRICS:—G. C. MELHADO.

**Fourth Year.**

1. A course of about fifty lectures on the fundamental principles of the subject, illustrated by diagrams, models, and fresh and preserved specimens.

Professor Chipman.

OBSTETRICS.

**Fifth Year.**

2. Bedside instruction in the Montreal Maternity, including external palpation, pelvimetry, the management and after-treatment of cases.

3. A complete course on obstetric operations with the Tarnier-Budin phantom.

4. A course of individual clinical instruction at the Montreal Maternity Hospital including an interne period.

5. Clinical demonstrations and ward-work on the diseases of the new-born.

*Text-books:*—Whitridge Williams; Webster; Evans; De Lee; Berry Hart.

GYNÆCOLOGY.

6. Theatre Clinics and bed-side instruction in the Royal Victoria and Montreal General Hospitals.

Professors Chipman and Lockhart and Staff.

7. Practical instruction to small groups of students in the out-patient departments of the Royal Victoria and Montreal General Hospitals.

*Text-books:*—Hart and Barbour; Blair Bell; Dudley Hurst; Gilliam; Anspach.

## OPHTHALMOLOGY.

PROFESSOR:—W. G. M. BYERS.

CLINICAL PROFESSOR:—G. H. MATHEWSON.

LECTURERS:— F. T. TOOKE. S. H. MCKEE.

DEMONSTRATORS:— A. G. MCAULEY. J. A. MACMILLAN.

ASSISTANT DEMONSTRATORS:— J. ROSENBAUM. A. BRAMLEY-MOORE.

The undergraduate course in opthalmology is designed to meet the needs of a well-trained general practitioner.

In the Fourth Year, the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum of outlay for equipment. Instruction in the use of the opthalmoscope, and familiarization with the appearances of the normal fundus of the eye, are a main feature of this preliminary teaching.

In the Fifth Year, apart from a course of twelve lectures, variously illustrated and covering the place of ophtlamology in medicine, the relation of the eye to other organs, and the general principles of the subject, the entire available time is spent in theopthalmic wards and clinics of the hospitals. The work here is restricted to an intensive study of the ocular problems that are of greatest moment in general practice—the external diseases of the eye, and the main opthalmoscopic findings in systematic disorders and effections of the nervous system; with practical lessons on opthalmic nursing and first aid.

*Text-books:*—Parsons; May; De Schweinitz; Fuchs.

## OTO-LARYNGOLOGY.

PROFESSOR:—H. S. BIRKETT.
LECTURER:—H. D. HAMILTON.
DEMONSTRATORS:— HAMILTON WHITE. J. T. ROGERS.
ASSISTANT DEMONSTRATORS:— D. H. BALLON. G. E. HODGE.

The course of instruction in Oto-Laryngology is carried on in the recently constructed wards and out-patient department of both the Montreal General and the Royal Victoria Hospital, where owing to the large clinics the students are afforded ample opportunity of receiving practical instruction in these subjects. Between these two hospitals there are about fifty beds set apart for this specialty.

The courses are conducted in small classes, so that personal supervision, which is so essential in this specialty, is accorded to each student.

The clinics are held twice a week in each hospital and continue throughout the session.

The courses are based altogether upon the needs of such knowledge as a general practitioner should have regarding these special organs.

The course is carried on in both Fourth and Fifth Years.

In the Fourth Year the students receive instruction in:—(a) The normal anatomy of the ear, nose and throat, as exemplified in moist dissections, dried specimens, models, stereoscopic plates and radiograms of normal conditions of the accessory sinuses of the nose and mastoid process; (b) the method of using the various instruments for examining the ear, nose and throat; (c) the usual tests for hearing; (d) the recognition of normal conditions of these special organs, as exemplified by clinical material.

In the Fifth Year the students have presented to them only pathological conditions affecting these organs. As many cases as is possible are brought forward to illustrate the various diseases, and the clinical material thus presented is dealt with by a clinical lecture, and is further enlarged by gross pathological specimens, microscopical material and lantern slides.

From eight to ten didactic lectures are given only upon the more common conditions met with in these organs in general practice.

At the end of the course in the Fifth Year only an examination is held, which is written and clinical.

Two positions as Resident House-Surgeons in the Department of Oto-Laryngology in both hospitals are open to the members of the graduating class.

*Text-books:*—Albert Gray; St. Clair Thomson; A. Logan Turner; H. Tilley; Kerrison; Phillips.

# GRADUATE INSTRUCTION.

1. Any graduate who so desires may attend any of the regular courses given to students of the final year. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. Special graduate work is offered in every department, both in the laboratories and in the clinics, at any period during the year provided the graduate is willing to assign himself for serious work to one service. Application for this privilege should be made to the Dean or to the head of the Department in which the graduate desires to occupy himself.

See pages 320, 322, 327, 328 and below.

3. Post-graduate Courses: Special short courses lasting for four weeks during the month of April, 1925, have been arranged. (See page 343.)

Instruction will include the following subjects:—

*Medicine:*—

(1) General; (2) Disease of the Circulatory System.
(3) Metabolism; (4) Neurology.
(5) Tuberculosis.
(6) Pediatrics and Infectious Diseases.
(7) Clinical Laboratory Methods.
(8) Clinical Therapeutics.

*Surgery:*

(1) General; (2) Orthopaedic.
(3) Genito-urinary Diseases.

*Specialties:*—

(1) Ophthalmology; (2) Oto-Laryngology.
(3) Radiology; (4) Gynæcology and Obstetrics.
(5) Applied Anatomy.

4. Course for Diploma of Public Health: This course is specially designed as a thorough training for medical men undertaking the duties of a Medical Officer of Health.

Every M.O.H. should possess this qualification.

Candidates must have graduated in Medicine, or must have had other qualifications to practise at least twelve months before they are allowed to receive the diploma.

The duration of the course is at least eight months (October 1st to May 31st).

The curriculum is as follows:—

(a) A course of lectures dealing in a comprehensive manner with the general principles of Hygiene, Preventive Medicine and Sanitation.

(b) Bacteriology—a full practical course in general bacteriology, with special application to Public Health.

(c) (a) *Sanitary Chemistry.* Examination of air, water and water supplies in general, the commoner foods and beverages, sewage and sewage effluents, articles of dress, house decorations, etc.; chemical investigaions connected with trades and occupations.

*Physics.* General principles only in their application to Hygiene.

(d) Practical Out-door Sanitary Work. An extended course under a M.O.H., affording facilities for instruction in sanitation relating to housing, factories, work-shops and industrial establishments, schools, waterworks, sewage plants, refuse distribution, abattoirs, dairies and milk stations, welfare centres, etc., etc.

(e) Sanitary legislation and administration. Statutes and by-laws relating to Public Health and the powers of sanitary authorities; administration of the office of a Medical Officer of Health.

(f) Vital statistics; calculations and tabulations of returns of births, marriages and deaths and diseases.

(g) Meteorology and climatology; geographical and topographical distribution of disease.

Candidates for this diploma may claim exemption in any of the above subjects on presentation of adequate certificates.

Qualification for the diploma includes a knowledge of infectious diseases, of child hygiene and psychopathic diseases, the use of meteorological, hygienic and sanitary apparatus.

The successful candidate must further know the appearances of healthy and diseased tissues of animals, and their microscopic examination.

Finally, he must show a capacity to formulate a report on sanitary conditions in an acutal locality and make annual and other reports as required by Officers of Health.

These examinations are written, oral and practical.

The fee for the course, including the diploma, is $100.00.

5. Course for Medical Inspectors of Schools: The course is designed to acquaint the Medical Officer of Health with the conditions relating to the school child. The normal child is studied in all phases, his physical and mental fitness to undergo school training, his progress and development in the school. The hygienic conditions and surroundings are studied and all such features as may retard development.

Special instruction, therefore, is given to enable the medical officers to obtain not only a knowledge of the hygiene of the school child but also to detect the earliest signs of defect or disease.

The following subjects are dealt with as specially applied to this object in view:—

General medicine relating to school life—feeding, nutrition, mental deficiencies, communicable diseases, dermatology, etc. Orthopaedics in its relation to the school child; oto-laryngology and opthalmology.

Regional anatomy; hygiene and sanitation; administration and the relation of the school medical officer to Public Health authorities.

Visits are paid to various schools for personal observation of the technique of these inspections.

6. Graduates desiring special instruction in Industrial Hygiene or School Hygiene may apply to the Head of the Department of Hygiene.

## SPECIAL POST GRADUATE COURSES.

### April, 1925.

These courses, lasting four weeks, will commence on Wednesday, April 1st, and will be so arranged as to give visitors the facilities of the wards and laboratories in all the hospitals and institutions affiliated with the University, under the direction of the senior members of the Staff; chiefly at:—

The Royal Victoria Hospital.

The Montreal General Hospital.

The Children's Memorial Hospital.

The Royal Edward Institute.

The Alexandra Hospital for Infectious Diseases.

The principal object of these courses is to familiarize practitioners with the most modern conception and methods of medical practice, and to enable them to study two or three branches of medicine in a fairly thorough way over a short period of time.

Applicants for these courses are strongly urged not to attempt more than two or three of them throughout the period.

The subjects dealt with will be as follows:—

### I. INTERNAL MEDICINE.

Under the direction of Professors J. C. Meakins and C.P. Howard and staff of specialists.

(1) General Medicine.
(2) Diseases of the Heart and Circulatory System.
(3) Tuberculosis and Diseases of the Chest.
(4) Neurology.
(5) Pediatrics and Infectious Diseases.
(6) Application of Metabolic Methods to Medicine.
(7) Clinical Therapeutics.
(8) Clinical Laboratory Technique.

Under the direction of Professors E. W. Archibald and A. T. Bazin and staff of specialists.

(1) General Surgery.
(2) Genito-urinary Diseases.
(3) Orthopædics.

### III. OPHTHALMOLOGY.

Under the direction of Professor Gordon Byers.

### IV. OTO-LARYNGOLOGY.

Under the direction of Professor H. S. Birkett.

### V. GYNÆCOLOGY AND OBSTETRICS.

Under the direction of Professor W. W. Chipman.

### VI. RADIOLOGY.

Under the direction of Drs. A. H. Pirie and W. Wilkins.

### VIII. APPLIED ANATOMY.

Under the direction of Professor S. E. Whitnall.

The time table will be so arranged as to avoid overlapping wherever possible.

The fee for the combined courses is $50.00.

Additional courses may be arranged upon special demand.

A detailed programme will be available after January 1st, 1925.

# HOSPITALS.

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal conditions exist for the teaching of medical students, the School being in juxtaposition to the Royal Victoria Hospital, with which it is closely allied, while the large scientific laboratories of the University are also adjacent, thus enabling easy co-operation. In addition, close affiliation exists with the Montreal General Hospital, the Children's Memorial Hospital, the Foundling Hospital, the Alexandra Hospital for Infectious Diseases, the Protestant Hospital for the Insane and the Royal Edward Institute for Tuberculosis.

The Maternity Hospital, from the teaching standpoint, is controlled by the University.

**The Royal Victoria Hospital,** closely affiliated with McGill University, is a general hospital for acute cases, and contains 338 public beds. During 1923, it cared for nearly 30,000 cases; while in the Outpatient Department, about 70,000 patients were treated. There were 212 autopsies during the year.

The number of residents is 32.

**The Montreal General Hospital** has 317 public beds, and admitted in 1923 nearly 5,000 cases of all varieties. The large and reconstructed Outpatient Department, probably the finest in the country, treated last year nearly 150,000 patients. There were 318 autopsies in 1923.

The staff is appointed with the co-operation of McGill University, and practically all its members are on the teaching staff of the McGill Medical School.

There are 30 resident physicians.

Many additions to the original building have been made, and within recent years it has reorganized its wards, its clinical and pathological laboratories and out-patient departments.

The Dental Clinic, completed in 1921, has 50 dental chairs, and a hospital dental clinic unequalled on this Continent.

**The Western General Hospital,** recently amalgamated with the **Montreal General Hospital,** will, it is hoped, afford additional opportunities for the undergraduate.

**The Montreal Maternity Hospital,** with 31 teaching beds, admitted last year 1,447 patients, with a total of 1,354 confinements. The organized out-patient service is also of the greatest benefit to the undergraduate students.

There are 10 resident physicians.

**The Children's Memorial Hospital,** affiliated with the McGill Medical School, has 120 public beds, and in 1923, admitted 1,082 patients. The attendance at its out-door department in 1923 totalled 10,668 patients. This hospital, while primarily for orthopædic cases, now admits all varieties of cases, and enables the student to get a broad conception of pediatrics. Of special interest are the Departments of Remedial Gymnastics, the Open-air Pavilion, and the well-equipped Out-patient service.

A summer course, lasting four weeks, has for several years enabled students and practitioners to become acquainted with many of the most important phases of modern pediatrics.

**The Montreal Foundling and Baby Hospital,** likewise affiliated with McGill University and adjacent to the Maternity Hospital, affords a large amount of clinical material for students, and gives special facilities for the consideration of infant feeding. There are 75 beds. In connection with this institution, there is a largely-attended Baby Welfare Clinic for mothers seeking advice as to the care of the normal child, and of themselves.

**The Alexandra Hospital for Infectious Diseases,** opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are 170 beds, and in 1923, 1,201 patients were admitted to the hospital. There were 26 autopsies.

**The Protestant Hospital for the Insane at Verdun** has 630 beds. It serves to instruct students in the diagnosis and treatment of the psychoses. Students are taken about the wards in groups, and are required to report on cases and discuss the general problems of Psychiatry with the teachers. Occupational therapy is emphasized.

**The Royal Edward Institute**—a dispensary for Tuberculosis—offers adequate material for teaching students, in groups, the essential features of pulmonary disease.

In these Hospitals altogether there are positions for 83 residents, all of which are open by preference to graduates of the McGill Medical School.

## LIBRARY.

HONORARY LIBRARIAN:—C. F. WYLDE.
ASSISTANT LIBRARIAN:—MISS JEAN CAMERON.
ASSISTANTS:—
- MISS PAULINE M. CARRIÈRE.
- MISS C. DAVIDSON, B.A.
- MISS PATRICIA BURNS.
- MISS EDITH GORDON.

"The history of the Library is the history of the Faculty."
Professor Hall.

The Library occupies the central part of the building, the whole front of the second and third floors, as well as a portion of the first floor. On the third floor is the magnificent reading room, 76 x 24 feet, exceptionally well lighted, and capable of accommodating 75 readers. On this floor also are the journal room and private offices. The second floor contains the stack room, the book stacks having a total capacity of sixty thousand volumes.

A special feature of the Library is the journal collection, and every effort is being made to complete this section as far as possible and thus to increase the value of the reference department of the Library.

There is also a great duplicate collection of journals from which distribution can be made on the exchange basis.

There is no printed catalogue, but there has been compiled a comprehensive list of continuations with their inclusive volumes, and this list will be available for out-of-town borrowers.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other colleges showing proper credentials, and registered nurses. It is felt that graduates living at a distance are not aware of the fact that books may be borrowed from the Library on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during term from 9.00 a.m. to 6.00 p.m., except Saturday, when it closes at 5.00 p.m. After June 1st it is open from 9.00 a.m. to 5 p.m., Saturdays, 9.00 a.m. to 1.00 p.m. During July and August it is closed on Saturday.

# MEDICAL SOCIETIES.

## 1. THE McGILL MEDICAL SOCIETY.

The Society is composed of the registered students of the Faculty. Its purpose is:—

(1) To transact all matters of business connected with the undergraduate body.

(2) To stimulate interest along medical lines.

(3) To increase the facility with which the men can express themselves in public.

(4) To give the men an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councilmen (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals as well as the leading daily newspapers are kept on file.

## 2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY.

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the senior year.

Meetings are held every month throughout the session, and papers are delivered by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

# DEPARTMENT OF PHARMACY.

## GENERAL ANNOUNCEMENT.

The Montreal College of Pharmacy, organized as a teaching body in 1867, for fifty years successfully carried on the work of instructing pharmaceutical students, and for many years it was the only institution in the Province of Quebec offering such instruction.

During the summer of 1916 this College was taken over by McGill University, and a Department of Pharmacy was established in connection with the Faculty of Medicine.

Special instruction on all subjects required by the future Pharmaceutical Chemist is given in the class rooms and laboratories of the University, the students of Pharmacy having access to its splendid equipment.

The work of the Department embraces courses in Botany, Physics, Chemistry and Practical Chemistry, Theoretical and Practical Pharmacy, Dispensing, Materia Medica and Toxicology.

The eighth session of this Department will be opened on Monday, September 22nd, 1924.

Students registering this session will take notice that the course in Pharmacy now covers a period of three years, the work being distributed as follows:—

**First Year.**

Physics, Junior Chemistry and Junior Practical Pharmacy.

**Second Year.**

Materia Medica, Junior Theoretical Pharmacy, Senior Chemistry and Botany.

**Third Year.**

Materia Medica and Therapeutics, Analytical Chemistry and Senior Practical Pharmacy.

## ENTRANCE REQUIREMENTS.

For entrance into the Department of Pharmacy the University accepts the preliminary examination of the Pharmaceutical Association of the Province of Quebec in default of the B.A. degree or Arts matriculation (B.A. Course), particulars of which will be found on pages 59 to 74.

The regulations regarding the Preliminary Examination of the Pharmaceutical Association of the Province of Quebec are as follows:

A diploma of Bachelor of Arts, Science or Letters from a Canadian or British University, is accepted in lieu of the preliminary examination. In this case the candidate must register his application with the Secretary of the Association, and produce his diploma, together with personal proof of his identity.

The candidate for the study of Pharmacy must give satisfactory certificates of good morals, as well as identification and a recent photograph duly attested, and he must be a British subject and at least seventeen years of age. He is also required to pay the fee in advance. The examination which the candidates undergo embraces the following subjects:—

GROUP I.—LETTERS:—

1. Mother tongue (English or French), grammar, syntax, analysis, composition, literature.
2. Auxiliary language (English or French), grammar, syntax, translation both ways.
3. Latin—Grammar, translation of two first books of Cæsar.
4. History—Canadian, French, English and American.
5. Geography.

GROUP II.—SCIENCES:—

1. Arithmetic.
2. Algebra and Geometry:—

   Algebra to 2nd degree exclusively.

   Geometry—The first two books of Euclid.

3. Physics and Chemistry:—

   Physics—Elementary knowledge of mechanics, weight, hydrostatics, pneumatics, capillarity, osmosis, optics and heat.

   Chemistry—General knowledge, definitions, the elements, principal laws of chemical reactions, properties of the principal metalloids and their principal compounds.

For admission the candidate must obtain at least the following percentage in the different subjects:—

Mother tongue and arithmetic, 60 per cent.; other subjects, 50 per cent.; and on the total, 60 per cent.

The candidate who fails in one subject only, of the above groups, either of letters or of sciences, may present himself for examination in that subject at any one of the four subsequent examinations.

The candidate may try for science or letters at different examinations, separately, or for both of these two groups at the one examination. Clear and legible writing is required.

Fee, $20.00, or $10.00 for each group.

The preliminary examinations for admission are held in Montreal and Quebec, the first Thursday of January and July of each year.

The registration of candidates for the examinations must be made at the office of the Registrar of the Association at least ten days before the date set for the examinations. A blank register form can be obtained from the Registrar, and must be signed by the candidate.

The major and minor examinations are held at Montreal in April, and at Quebec in the Autumn.

## REGISTRATION.

Students in Pharmacy are required to register at the office of the University Registrar between September 15th and September 22nd, both days inclusive. Students entering on or after Monday, September 22nd, will not be allowed to register until they have paid a late registration fee of $5.00 during the first week of the session, and of $10.00 during the second. This will not be refunded except for satisfactory reasons and by special authorization of the Faculty.

## EXAMINATIONS.

Examinations in each subject are held at the close of the course. Students who pass in all subjects of the curriculum, as required by the Pharmaceutical Association of the Province of Quebec, will receive the University Diploma of Pharmacy. A minimum of 50 per cent. in each subject is required to pass, and 75 per cent. for honors. The examination requirements of the Pharmaceutical Association of the Province of Quebec for license to practise Pharmacy in the Province are stated on page 355.

## PHYSICAL EXAMINATION AND TRAINING.

See pages 79 and 317.

## PRIZES.

For the session 1924-25 a medal is offered as a prize to the graduate who obtains the highest total percentage over 80 per cent.

## TEXT BOOKS RECOMMENDED.

PHARMACY AND PRESCRIPTIONS:—Remington's Pharmacy, Bennett's Medical and Pharmaceutical Latin, Scoville's Art of Compounding, Art of Dispensing, Lucas' Practical Pharmacy.

CHEMISTRY:—Junior and Senior Chemistry.

*Reference Book:*—Sadtler and Coblentz, Pharmaceutical and Medical Chemistry.

PHYSICS:—Balfour Stewart's Elementary Physics, Ganot's Physics, Peck's Ganot's Physics.

BOTANY:—Gray-Robinson Manual, Kraemer's Applied and Economic Botany.

MATERIA MEDICA:—British Pharmacopœia, United States Dispensatory, Squire's Companion to the British Pharmacopœia, Royal's Materia Medica, Sayre's Organic Materia Medica and Pharmacognosy, Heebner's Synopsis.

# COURSES OF LECTURES.

## CHEMISTRY.

Two courses will be required for the Diploma in Pharmacy, namely the junior and senior.

*Junior Chemistry.*—This includes elementary physical science and a university course on the general principles of the science of chemistry. A course in elementary physics will be taken with the students in the School of Commerce and will consist of a series of twenty-five lectures on the principles of physics and their application. The course is non-technical and is intended as an introduction and supplementary to the course in general chemistry. The course in general chemistry will consist of three lectures per week, given for the students in Arts and Medicine, on Monday, Tuesday and Thursday, at two o'clock. In addition to these lectures, there will be two laboratory periods each week of two hours, immediately following the lectures on Monday and Thursday. This course in general chemistry is intended to give a thorough grounding in the fundamental principles governing chemical action and the formation of chemical compounds, organic as well as inorganic.

*Senior Chemistry.*—The senior course in chemistry will be a short course of laboratory work on the identification and separation of organic and inorganic compounds of special importance in Pharmacy, and will include elementary toxicology, the assay of crude drugs, volumetric analysis, analysis of urine, the use of spectroscope, etc.

Both courses of chemistry will be given by Dr. Ruttan and members of the staff of the Department of Chemistry.

## PRACTICAL PHARMACY.

*Junior.*—This course will embrace (1) the preparation of a number of typical examples drawn from the official dilute acids, waters, liquors, plasters, extracts, fluid extracts, mixtures, liniments, oleates, syrups, ointments, etc. (2) General principles to be observed simple and compound powders, mixtures, emulsions, their nature and preparation; pills and pill coating, gargles, lotions, liniments, suppositories, plasters, ointments, cachets, capsules, tablets and tablet triturates, lozenges and pastilles, lamellae, incompatibility, Pharmacy law.

*Senior.*—Practical Pharmacy in all its branches will be thoroughly dealt with. The course will include the following subjects:—Clarification, crystallization, decantation, dialysis, distillation, drug grinding, extraction, filtration, heat, metrology, percolation, precipitation, solution, specific gravity, specific volume and vaporization.

In conjunction with the foregoing, the class will practise the modus operandi for the manufacture of different preparations of the B. P., and others, including chemical solutions, elixirs, spirits, plasters, emulsions, ointments, granular effervescent salts, crystal and scale salts of iron, resins, oleo resins, etc.

Particular attention will be given to pharmaceutical assaying, such as opium, ipecac, belladonna, cinchona, nux vomica.

### MATERIA MEDICA AND THEORETICAL PHARMACY.

*Junior.*—This will include instruction in pharmaceutical jurisprudence, poison schedules, weights and measures; classification of the official organic drugs, including leaves, flowers, fruits, seeds, herbs, barks, gums, resins, etc., with the geographical source, parts used, and official preparation of each; posology; theoretical pharmacy (embracing the theories of manufacture of the simple preparations of the B. P., such as medicated waters, syrups, tinctures, compounds, powders, pill masses, etc.); dispensing.

*Senior.*—Complete classification of all official organic and inorganic drugs, giving, in the former, the mode of collection and preservation, geographical and botanical sources and parts used—and in both instances the constituents and impurities, also the medicinal properties of each, with their preparations; animal drugs, such as pepsin, pancreatin, thyroids, etc., will be dealt with in a similar manner; posology; pharmacognosy; toxicology; theoretical pharmacy (embracing the theories of manufacture of the more complex galenical official preparations); adulterants, impurities and the methods of detection.

### BOTANY.

*General Botany.*—General external morphology of the higher plants (higher cryptogams and phanerogams); anatomy and histology, the latter treated with more especial reference to methods of drug identification by means of the microscope.

*General Physiology.*—Elementary plant physiology, treated briefly.

*Special Botany.*—Structure of those plants below the pteridophytes of use or interest to the pharmacist, treated briefly; special morphology of pteridophytes and phanerogams, and their classification. Attention will more especially be given to those families (about 30) of plants chiefly represented in materia medica.

# EXAMINATIONS FOR ADMISSION TO THE PRACTICE OF PHARMACY.

## (1) EXAMINATION TO OBTAIN THE CERTIFICATE FOR ASSISTANT PHARMACIST.

To become an Assistant in Pharmacy the candidate must furnish proofs of having registered three years as a student in Pharmacy, also that he has served at least three years under a doctor or druggist duly registered; he must pay the fee required, and pass an examination on the medico-pharmacal sciences, Physics, Chemistry and Pharmacy. (Art. 4997, Law of Pharmacy.)

The candidate must be able to read prescriptions in script, translate them into English and French, write fully and legibly all the abbreviated words, point out the doses which are unusual, prepare, label and address properly the prescription, under the scrutiny of the examiner.

The candidate must recognize the Galenic preparations of the B. P., such as extracts, tinctures, powders, etc.; describe the composition of the compound preparations, giving the proportions of their active ingredients, the mode of preparation, and the doses. He must be able to describe properly in the presence of the examiner the different official Galenic preparations.

He must recognize samples of roots, barks, leaves, fruits, etc., employed in medicine, and name the official preparations into which they are incorporated; have a knowledge of the laws of physics and chemical combinations, of the nature and properties of the elements and their compounds, and recognize the acids, oxides, salts and other chemical bodies, described in the B. P., and also give their doses.

## (2) FINAL EXAMINATION FOR LICENTIATE IN PHARMACY.

The Final Examination to be passed by the candidate includes all the subjects required for the Assistant in Pharmacy Examinations, but a more thorough knowledge of these sciences is required, also practical, analytical Chemistry and Botany.

The candidate will have to describe the methods of obtaining acids, oxides, salts and other chemical compounds described in the B. P., explain the decompositions which take place when they are made, by means of written equations and diagrams, and also possess a good knowledge of the new synthetic products.

He must recognize the more important medicinal plants; know the therapeutics and posology of B. P. preparations, also the non-official plants which are used commonly, know the physiology and anatomy of plants, the shape, structure and characteristics of the roots, barks, leaves, flowers, fruits, etc.; their physiological functions and their natural order.

He will be required to know the best antidotes for urgent cases of poisoning by the ordinary toxics, and must pass in a satisfactory manner the test on practical pharmacy, analytical chemistry, volumetric, and urine analysis.

He must also show that he is registered as an Assistant Pharmacist, and give proofs of having duly served four years under a doctor or druggist duly registered; that he has followed for two years the Medico-Pharmacal classes, two years of Physics and Chemistry classes, one year's course in Botany and other natural sciences, according to the programme established in institutions incorporated and authorized by the Council of the Association; pass the examinations on the above subjects, and pay the fee. (Art. 4997, Law of Pharmacy.)

However, the student in Pharmacy or the certified clerk may, if he so desires, give up a whole twelve months exclusively to the study of Pharmacy. (Art. 4997.)

The Board of the Pharmaceutical Association will accept only one course in any subject in the same year; classes attended during the same scholastic year in different schools will count for one course. Private or academy classes will not be accepted.

At the Junior and Final Examinations, students must obtain 40 per cent. of points on each subject, at the written examinations, and 50 per cent. on the total number of points, to be admitted to the oral examinations; but the student who passes satisfactorily the written examination is not obliged to begin it over again if he fails in the subsequent oral examination. At the oral examination, they must obtain at least 40 per cent. on each subject, and finally to obtain their license, they must obtain 60 per cent. of the total examinations, oral and written united. Any candidate receiving less than 40 per cent. on any one subject in the written or oral examinations, may apply at the following examination to be examined on this one subject. A candidate who fails to obtain the necessary 40 per cent. in two or more subjects must take all subjects of the examination over again. Any candidate who does not apply at the next examination following to take the subject in which he has failed, or who tries and fails again, will have to take the whole examination, either written or oral, as the case may be.

No certificate of examination will be accepted from any Pharmaceutical Association or College, unless it has been granted after a service of four years in a drug store and following a course of studies which in the opinion of the Board of the Association is equivalent to that required by the articles 4997-4998 of the Law of Pharmacy of the Province of Quebec.

Candidates who apply for the final examination, and who are not twenty-one years old, will be admitted to the examination, but if they succeed their license will be retained until they have attained the age of twenty-one.

# FACULTY OF DENTISTRY.

## FOUNDATION AND HISTORY.

The Dental Department of McGill University was established as a Department of the Faculty of Medicine, in the autumn of 1903. This fact insured for the student the very best training in anatomy, physiology, histology, embryology, bacteriology, chemistry, etc., those fundamental subjects, a knowledge of which underlies a successful practice along modern lines of preventive dentistry.

At that time the didactic teaching and laboratory work were carried on in the lecture rooms and laboratories of the Medical Building, clinical instruction being given at the Dental Infirmary, a clinic conducted by the Dental Association of the Province of Quebec. This arrangement fulfilled the requirements of the Department for a time, but soon the need of separate quarters for didactic and laboratory instruction and also of improved clinical facilities was felt. These have been supplied, first, by the assignment to the Department of a portion of the east wing of the Medical Building, and, second, by the establishment of a clinic at the Montreal General Hospital.

The new quarters of the Faculty occupy the northern half of the first floor of the east wing of the Medical Building. Here are provided all the necessary lecture rooms and laboratories, as well as private rooms for the members of the staff. The laboratories are equipped with the latest apparatus and appliances for teaching practical dental operations.

The clinic at the Montreal General Hospital was established in connection with the out-patient department of the Hospital in the early part of the session 1908-09.

The rapid growth of the Faculty, however, soon made necessary the enlargement of the facilities for teaching Clinical Dentistry, and so in 1921 the University, acting conjointly with the Governors of the Montreal General Hospital, thoroughly remodelled the space used for the clinic, and in addition erected a new wing 80 ft. x 36 ft.—the entire wing being occupied by dental chairs and other equipment. This gives to the Faculty one of the most thoroughly equipped dental clinics on the Continent. In addition to the splendid equipment and facilities provided in the Hospital clinic, students of the Dental Faculty share with the other departments the advantages of the great Hospital with which it is connected, such as a splendid "X" ray department and a well-managed pathological department. They also have the privileges of the

surgical operating amphitheatre, and the Hospital anæsthetists are always available for operations in connection with the oral cavity.

Notwithstanding the greatly increased facilities for dealing with a large number of patients the number attending the dental clinic is still adequate, and more than adequate, to supply the students with every possible method of dental treatment. The Staff of Clinical Instructors is being very materially enlarged, so that the students in the clinic are assured of intelligent supervision and co-operation. The equipment is modern in every respect.

The Medical and Dental Library of McGill is one of the finest in America, so that students who desire it may have the benefit of a great reference library.

The Dean devotes his entire time to the work of the Faculty, thus insuring for the students careful and continuous oversight in both theoretical and practical work.

## ENTRANCE REQUIREMENTS.

Intending students are reminded that a University degree in Dentistry does not of itself give a right to practise the profession of Dentistry. It is necessary to comply with the Dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its license, and in all of them a certain standard of general education is insisted upon before beginning the study of Dentistry. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their University course. In the case of candidates from outside the Province of Quebec such a certificate will be sufficient to secure admission to the Faculty.*

Those who intend to practise in the Province of Quebec must complete at least two years in the Faculty of Arts of any recognized University or pass the examination for admission to study prescribed by the College of Dental Surgeons of the Province. The requirements for entrance to the Faculty of Arts are stated in detail in the General Announcement. The requirements for the Dental Board Examination are as follows:

### Group A.—Classics.

**Latin.**—Cæsar's Commentaries, Books I, II, III; Virgil's Eneid, Books I, II; questions on grammar and constructions.

**English.**—Grammar and Analysis; knowledge of one of Shakespeare's plays ("Othello," 1924).

**French.**—Questions on Grammar and Analysis; translation into English of extracts from Fénelon's "Aventures de Télémaque," Books 1 to 10 inclusive; translation of short English sentences into French.

**Literature.**—Principles of the subject, with the History of Greek and Roman literature of the classical age, and of English literature from the beginning of the 17th century to the present time.

**History.**—Outlines of Greek and Roman History with a rather more detailed knowledge of the History of England, France and Canada.

**Geography.**—Modern, especially of Britain and France, and of their colonies and possessions, especially of Canada.

GROUP B.—SCIENCES.

**Arithmetic.**—To the end of Square Root, and a practical knowledge of the Metrical System.

**Algebra.**—To simultaneous equations of the first degree, inclusive.

**Geometry.**—Euclid, Books I, II, III, and the first twenty propositions of Book VI, also the measurement of the surfaces and volumes of the geometrical figures.

**Botany.**—As in Gray's "How Plants Grow."

**Chemistry.**—As in Remsen's "Elements of Chemistry."

**Philosophy.**—Logic, as in Jevons' Logic to page 182. Intellectual and Moral Philosophy, as in Christian Brothers' Philosophy, by L. Poissy.

**Physics.**—Elementary Statics and Dynamics of Solids and Fluids, with the Chapters on Heat and Electricity, according to Peck.

Candidates may take one group at one examination and the other group at the next subsequent examination. If a candidate fails in only one subject, he will have to take over that subject only. In order to pass, the candidate must obtain 60 per cent. in Latin, English, French and Arithmetic, and 50 per cent. in the other subjects. Candidates must produce certificates of good moral character.

The examinations are held at Montreal, on the first Wednesday in April and the second Wednesday in September. Applications are to be made in person to the Secretary, accompanied with the receipt of the Treasurer for the matriculation fee, at least fifteen days before the date of examination. Fee, $20.00.

For other information, apply to Dr. Denis Forest, Secretary, College of Dental Surgeons of the Province of Quebec, 187 de la Roche Street, Montreal.

The following is a list of the Registrars of the several Canadian Provinces. Students are advised to write for information whenever they are in doubt as to the regulation of any province.

**Ontario.*—W. E. Wilmott, Toronto.
**Nova Scotia.*—Geo. K. Thompson, D.D.S., Halifax.
**New Brunswick.*—F. A. Godsoe, D.D.S., St. John.
**Prince Edward Island.*—J. S. Bagnall, D.D.S., Charlottetown.
**Manitoba.*—H. F. Christie, D.D.S., 626 Somerset Block, Winnipeg.
**Alberta.*—H. F. Whittaker, D.D.S., Edmonton.
**Saskatchewan.*—L. J. D. Faskin, Regina.
*Quebec.*—Dr. Denis Forest, 187 de la Roche St., Montreal.
**British Columbia.*—Albert Brighouse, Vancouver.

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* Members of the Dominion Dental Council.

### DOMINION DENTAL COUNCIL OF CANADA.

Eight of the nine Canadian Provinces (*i.e.*, all but Quebec,) have entered into an agreement whereby the holder of a license granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this license a candidate must: (1) Hold a matriculation certificate of the proper standard; (2) Pass the examination set by the council, and (3) Pay the local provincial registration fee.

The Secretary of the Dominion Dental Council is Major W. D. Cowan, M.P., Regina, Sask.

### VACCINATION AND PHYSICAL EXAMINATION.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the medical examiner. Students who do not give evidence of successful vaccination or who do not present themselves for medical examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

For regulations regarding physical examination, see pages 79 and 317.

## COURSE FOR THE DEGREE OF D.D.S.*

FIRST YEAR.

**Anatomy.**
**Biology (general)**
**Chemistry (general and practical).**
**Dental Anatomy.**
**Prosthetic Dentistry.**
**Physics.**
**Physical Education** (two hours per week).

SECOND YEAR.

**Anatomy.**
**Crown and Bridge Work.**
**Dental Anatomy.**
**Dental Histology.**
**Dental Metallurgy.**
**Histology and Embryology.**
**Operative Technic.**
**Pharmacology.**
**Physiology.**
**Prosthetic Technic.**
**Physical Education** (two hours per week).

THIRD YEAR.

**Bacteriology.**
**Crown and Bridge Work**
**Dental History and Economics.**
**Dental Jurisprudence.**
**Dental Materia Medica.**
**Dental Pathology.**
**Dental Surgery.**
**Dental Therapeutics.**
**Operative Dentistry.**
**Orthodontia.**
**Pathology (general).**
**Prosthetic Dentistry.**

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*It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty of Dentistry, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

FOURTH YEAR.

**Anaesthetics.**
**Crown and Bridge Work.**
**Dental Hygiene.**
**Dental Pathology.**
**Dental Surgery.**
**Materia Medica.**
**Operative Dentistry.**
**Orthodontia.**
**Practical Crown and Bridge Work.**
**Practical Prosthesis.**
**Prosthetic Dentistry.**

## EXAMINATIONS.

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

*A minimum of 50 per cent. in each subject is required to pass, and 75 per cent. for honours.*

*All examinations in each year must be passed before a student will be allowed to advance to the next.*

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third years at the regular examinations excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and they must be accompanied by a fee of $5.00 for each subject.

## QUALIFICATIONS FOR THE DEGREE.

1. No one will be admitted to the degree of Doctor of Dental Surgery who shall not have attended lectures for a period of four sessions in this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University shall be required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

3. Candidates for the final examination shall furnish testimonials of attendance on the following branches of dental education; provided, however, that testimonials equivalent to, though not precisely the same as, those stated above, may be presented and accepted.

**Biology, General Chemistry, Practical Chemistry, Physics, Histology, Embryology, Anatomy, Practical Anatomy, Physiology, Practical Physiology, Bacteriology, Dental Materia Medica and Therapeutics, Pharmacology, Dental Pathology, General Pathology, Dental Anatomy, Dental Histology, Metallurgy, Dental Surgery, Dental Hygiene, Dental Jurisprudence, Operative Dentistry, Prosthetic Dentistry, Crown and Bridge Work, Orthodontia, Anaesthetics, Dental History and Economics.**

No one will be permitted to become a candidate for the degree who has not attended at least one full session at this University.

4. Every candidate for the degree must, on or before the 1st day of May, present to the Dean of the Faculty testimonials of his qualifications, entitling him to an examination, and must at the same time submit an affirmation or affidavit that he has attained the age of twenty-one years.

# COURSES OF LECTURES.

## ANATOMY.

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.
ASSOCIATE PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.
LECTURER IN EMBRYOLOGY:—F. SLATER JACKSON.
LECTURER IN ANATOMY:—I. MACLAREN THOMPSON.
LECTURER IN DENTAL ANATOMY:—H. E. MACDERMOT.
LECTURER IN HISTOLOGY:—W. M. FISK.
SENIOR DEMONSTRATOR (IN CHARGE OF DISSECTING ROOM):—
A. D. CAMPBELL.

DEMONSTRATORS OF ANATOMY:—
L. H. MCKIM.
F. J. TEES.
G. A. FLEET.
H. B. MALCOLM.
A. ROSS.
F. N. K. FALLS.
A. J. MARTIN.
N. T. WILLIAMSON.
T. M. RICHARDSON.

The course covers two years, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. He is thus enabled to study in greater detail those parts which are related to his particular province, and he avoids spending undue time over regions which possess no special educational or professional value for him. A special Lecturer supervises the work under the direction of the Professor.

*First Year:*—One lecture and one practical demonstration in the dissecting room per week throughout the session. The lectures serve as introductions to the various systems of the body—osseous, muscular, nervous, vascular, digestive, etc. The demonstrations are designed to take the students in small groups over the whole body, illustrating and further explaining the systems noted above. The students can handle and study for themselves the actual parts displayed.

*Second Year:*—Two lectures and ten hours dissecting per week throughout the session. The arm is first dissected as an introduction to technique, methods, and nomenclature. The thorax and abdomen are dissected with a view to understanding the functions of circulation, respiration, digestion, excretion, etc. The head and neck are thoroughly dissected in detail. Osteology classes on the skull with special regional demonstrations are held, and special lectures given on the development of the face, palate and jaws. Dissected brains are demonstrated and

studied to understand in particular the origin and connection of the cerebral nerves, the paths of reflex impulses, etc. Finally, demonstrations are given on the organs of special sense.

The work is supplemented by a course on the special anatomy of the teeth, conducted by the Dental Department.

**Histology and Embryology.**

*Second Year:*—One lecture and one laboratory period per week throughout the session.

The course includes:

(1) A survey of the general principles of embryology and of the early stages in the development of the human embryo.

(2) A detailed study of the fundamental tissues of the human body.

(3) A study of the development and microscopic structure of the organs and systems, in which the head and neck and the circulatory, digestive, and respiratory systems are considered in detail, whilst the remaining systems are treated in a more general way.

*Text-books:*—Gray or Cunningham, Morris, Quain, Piersol; Practical Anatomy, Parsons and Wright, Vol. II and Cunningham, Vol. III.; Histology, Jordan, Noyes, Schafer's Elements, Bailey.

## BIOLOGY.

The course in Biology for Dental students is conducted, conjointly, by the University Departments of Botany and Zoology. It consists of three parts:—

### Part I.

PROFESSOR OF BOTANY:—FRANCIS E. LLOYD.
ASSISTANT PROFESSOR:—GEORGE W. SCARTH.

This part of the course deals with the rationale and simple technique of microscopic vision, including both light and dark field illumination (ultramicroscope). Twelve lectures and twelve laboratory periods, three of each per week, during the first month of the session.

### Part II.

PROFESSOR OF ZOOLOGY:—ARTHUR WILLEY.
ASSISTANT PROFESSOR:—J. STAFFORD.
LECTURER:—M. NOTKIN.

The course in Elementary Zoology is that part of the pre-medical curriculum which introduces the student to some of the terms and principles of animal biology. The manner in which the leading functions of the body are performed in a number of selected types is explained, thereby preparing the student for the reception of the more advanced instruction in human anatomy and physiology.

**Part III.**

PROFESSOR OF BOTANY:—FRANCIS E. LLOYD.
ASSISTANT PROFESSOR:—GEORGE W. SCARTH.

This part of the course is a continuation of Part I and runs concurrently with the course in Histology and Embryology. It is designed to present to the student the principles of general biology as illustrated by plants.

## CHEMISTRY.

PROFESSOR OF CHEMISTRY:—R. F. RUTTAN.
ASSOCIATE PROFESSOR:—N. N. EVANS.

Instruction in Chemistry for students in Dentistry is given during the first year and is identical with the course given to First Year students in Medicine.

During the session the principles governing chemical action are studied in a systematic laboratory course of two periods per week. A printed synopsis of the work of each day is provided and necessary explanations are given before beginning the work. The course includes a study of chemical phenomena; the preparation and properties of typical elements and compounds; the laws of chemical action; gravimetric and volumetric determinations, and a short course in qualitative and quantitative analysis. The student is required to pay special attention to the keeping of an accurate record of his observations and calculations; note-books for this purpose are provided and are examined and criticized by the demonstrators. An examination is held at the end of the session.

During the session, a course in experimental lectures in general chemistry is given; three per week, with frequent reviews and examinations. This course is designed to familiarize the student with the characteristics of chemical action and the conditions which modify it rather than a detailed study of the preparation and properties of the elements and their compounds. An examination is held at the end of the term.

*Text-book:*—Smith's Intermediate Chemistry.

## CROWN AND BRIDGE WORK.

PROFESSOR:—A. W. THORNTON.

This subject will be taught (as an integral part of Prosthetic Dentistry) by a course of lectures and a series of laboratory demonstrations leading up to the clinical experience given the student in the Dental Clinic.

The general conditions which indicate and the principles which underlie the use of this method in the replacement of lost teeth will be considered, together with the preparation of the natural teeth for the reception of artificial crowns and partial plate attachments.

Concurrently with a description of the various artificial crowns given in the lecture room, the student will be required to construct them in the laboratory under the direction of a demonstrator.

Exhibition work is required in both crown and bridge work, to be placed in the hands of the Professor at the end of the winter term.

*Text-books:*—Goslee, Peeso.

### DENTAL ANATOMY.

LECTURER:—J. W. ABRAHAM.

This course, given in connection with general anatomy in the First Year, is to give the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

The student is first made to draw, then to model in clay, several teeth chosen by the lecturer. He then carves in ivory sixteen teeth, representing all the forms in the human mouth, which are then articulated anatomically. These are used later on by the student in his work in operative dentistry.

Different sections of extracted teeth are made, to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total one hundred and thirty hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; four hours a week to demonstrating, modelling, carving, making sections, etc., one hundred and four hours.

*Text-book:*—Black.

### DENTAL HISTORY, ETHICS AND ECONOMICS.

LECTURER:—F. A. STEVENSON.

**History:—**

This course is intended to give to the student an intelligent conception of the evolution and development of Dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

**Ethics:—**

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner and himself.

**Economics:—**

Under this head the business of the dentist's life will be considered. The questions of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

## DENTAL JURISPRUDENCE.

PROFESSOR:—D. D. MACTAGGART.

LECTURER:—W. L. BOND.

In this course the lecturer will discuss the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, etc., will be fully explained.

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR:—FRED. G. HENRY.

In the Fourth Year a course of demonstrations and lectures in this subject is given, extending throughout the whole session. This comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances used in the treatment of diseased conditions of the dental organs and morbid conditions of the oral cavity, together with their various applications, doses, antidotes, and contraindications, with instruction in prescribing, etc. Anæsthesia and the various anæsthetics are also taken up, following that already given in the Second Year.

*Text-books*:—Hare, Gorgas, Buckley, Prinz.

## METALLURGY.

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

This course is given to Dental students of the Second Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

*The lecture course covers:—*

(1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.

(2) Methods of melting, casting and alloying metals in the laboratory.

(3) Methods of extracting metals from their ores.

(4) The nature and preparation of alloys, including amalgams.

(5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminium, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.

(6) The manufacture, properties and uses of dental amalgams.

*Text-book:*—J. D. Hodgen, "Practical Dental Metallurgy."

*The laboratory course* includes experimental work with the metals: gold, silver, copper, lead, zinc, tin, and aluminium.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Mr. Sproule.

## OPERATIVE DENTISTRY.

PROFESSOR:—F. H. A. BAXTER.

LECTURER:—H. V. DRIVER.

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. The course of lectures extends over two years and a half, and includes discussion of the treatment of caries; the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in operating upon the teeth. Clinics will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each

student must provide himself with the instruments necessary for his own use, a list of which will be furnished. He is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend two full months doing practical work in the Hospital Clinic.

*Porcelain:*—This course consists of the study of porcelain in its various uses. It is taught by means of lectures and demonstrations, as well as by practical work by the students themselves under supervision.

Preparation of cavities for inlays, preparing matrices and the various methods in which porcelain may be employed in crown and bridge work are dwelt upon.

*Text-books:*—Johnson, Black.

## ORAL SURGERY.

LECTURER:—C. K. P. HENRY.

This will embrace a series of lectures on injuries and diseases of the mouth and jaws and their treatment. The clinics of the Montreal General Hospital afford ample material for students to observe and study disease conditions as well as to witness operations in the mouth.

*Text-books:*—Marshall, Blair's Surgery and Diseases of the Mouth and Jaws, Brophy's Oral Surgery.

## ORTHODONTIA.

PROFESSOR:—JAMES B. MORISON.

ASSOCIATE PROFESSOR:—A. W. MCCLELLAND.

The course in this branch will commence with the study of the dental organs during development and eruption.

Special attention will be given to the temporary teeth and the influence they exert in directing the normal occlusion of their permanent successors. The student will be directed to the importance of the study of the etiology of this subject, and its relation to the prevention and treatment of malocclusion. Cases deviating from the normal, typical of every variety met with in practice, will be dealt with and a classification made based on the treatment required.

The different methods employed in correcting these conditions will be fully demonstrated, together with the mechanical appliances used.

Ample clinical material is available at the Dental Clinic, where students in the final year will be allotted cases, the treatment of which will be carried on throughout the session.

*Text-books:*—Angle, Pullen, Lischer, Dewey.

## PATHOLOGY AND BACTERIOLOGY.

PROFESSOR OF DENTAL PATHOLOGY:—FRED. G. HENRY.
PROFESSOR OF PATHOLOGY:—HORST OERTEL.
ASST. PROFESSOR OF BACTERIOLOGY:—A. A. BRUERE.
LECTURER IN PATHOLOGY:—C. T. CROWDY.
DEMONSTRATOR IN PATHOLOGY:—J. W. SCOTT.

### Dental Pathology.

This course is given to the students of the Third and Fourth Years, and includes a consideration of the various diseases of the enamel, dentine, dental pulp and peridental membrane, their symptomatology and treatment, also a consideration of abnormal conditions of the tissues of the oral cavity with a description of treatment and management of these diseases.

Special attention will also be given to pathological conditions of the nerve structures of the head and their connections with the diseased conditions of the dental tissues.

The mitigation of pain in dental operations receives special attention and the various means employed fully developed and explained, and such directions given as will enable the student to avoid methods and drugs harmful to the tissues.

### Bacteriology.

A course of lectures upon bacteriology in relation to disease for students of the Third Year; lectures given twice a week during the autumn term.

A practical course in the bacteriology of infectious diseases for students of the Third Year. Two periods a week during the autumn term.

*Text-books:*—Dental Pathology and Pharmacology, Burchard and Black; Bacteriology, Muir and Ritchie, McFarland, Park, Connell.

## MATERIA MEDICA AND PHARMACY.

PROFESSOR:—ALEX. B. J. MOORE.

The course in Materia Medica and Pharmacy is given in the Third Year:

This course of about twenty-five lectures and demonstrations covers pharmacognosy, therapeutics and toxicology.

Pharmacopœias—B.P., U.S.P., B.P.C., and various hospital formularies;

Drugs—All organic and inorganic chemicals such as:—alkaloids—glucosides, essential oils, stearoptenes, mineral salts, coal tar and its derivatives, animal products, synthetics, their sources and medicinal properties;

Therapeutical classification of drugs, such as:—anæsthetics, anodynes, antiseptics, caustics, hypnotics, hæmostatics, counter-irritants, etc., etc.;

Toxicology—Toxic doses of potent drugs with chemical and therapeutical antidotes; toxic drugs, their action and administration;

Habit-forming drugs—cocaine, heroin, morphine, etc.;

Posology—

Prescription Writing—Various systems of prescribing symbols, correct abbreviations, incompatibility;

Pharmacy — nomenclature, metrology, specific gravity, percentage solutions, sterilization;

Pharmaceutical Preparations — tinctures, pigments, spirits, collodions, hypodermic injections, mouth washes, dentifrices, fluid extracts, tablets, etc.;

Methods of Manufacture.

*Text-books:*—Dixon, Cushny.

## PHYSICAL EDUCATION.

DIRECTOR:—ARTHUR S. LAMB, B.P.E., M.D.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY, B.A., M.D.

In order to promote as far as possible the physical welfare of the student body, every man student coming to the University for the first time, is required to pass a physical examination, to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of the Second Year, as well as those of all Years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration.

As a result of this examination each student will be placed in one or other of the following categories:—

(*a*) Fit for all forms of physical exercise.
(*b*) Fit for a limited number of forms.
(*c*) Fit for gymnasium work only.
(*d*) Fit for remedial gymnastics or temporarily unfit.
(*e*) Unfit for any form of physical exercise.

At the same time he will be asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless

debarred for medical reasons, under which circumstances he will be given a further choice among other recognized, but less strenuous, forms of exercise, or will do gymnasium work as the case may require.

Any student participating in competitive athletics may be excused from other forms of exercise during the session of training, providing that this is performed to the satisfaction of the Director.

Physical education is compulsory for all students of the first two years. Two periods per week will be devoted to it.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

At regular intervals during each session, and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the respective Faculties.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

Provision is made by the Department of Physical Education for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students, will be distributed at the opening of the session.

## PHYSICS.

DIRECTOR OF PHYSICS:—A. S. EVE.

ASSISTANT PROFESSOR:—H. E. REILLEY.

DEMONSTRATORS:— A. V. DOUGLAS. M. HOME. B. PRIESTMAN.

*First Year.*—This course is given in the Physics Building of the University. It consists of three lectures and a laboratory period of three hours per week.

The lectures are experimental in character, especially designed to meet the requirements of students in Medicine and Dentistry. The course includes a study of energy, simple machines, properties of matter, fluid pressure, fluid motion, capillary phenomena; production, transmission and interpretation of sound; temperature and temperature measurements, gas laws and kinetic theory, heat capacity, latent heats, laws of vaporization, humidity measurements, heat conduction; elements of magnetism, laws of electrostatics, electrostatic induction and condensers; primary batteries, Ohms' law and its applications, measurements of resistance and electromotive force, measuring instruments, magnetic effects of a current, induced currents, induction coil, conduction through gases, properties of cathode rays and X-rays; radioactive substances and their radiations; laws of reflection and refraction of light, mirrors, lenses and lens combinations, microscopes, telescopes, spectra, spectrum analysis, colour, interference, crystallography, polarized light, and saccharimetry.

In the laboratory the student learns the use of such instruments as the balance, vernier, spherometer, hydrometer, hygrometer, spectroscope, saccharimeter, electroscope. Verifications are made of Archimedes' principle, Boyle's law, laws of reflection and refraction, Ohm's law, etc. Measurements are taken of specific gravities, frequencies, specific heats, latent heats, electrical resistance, focal lengths, besides qualitative experiments illustrating the more important physical principles.

*Text-books:*—Physics, by A. W. Duff, and Laboratory Manual, First Year Course in Physics (Renouf Publishing Co.).

## PHYSIOLOGY.

THE MORLEY DRAKE PROFESSOR:—JOHN TAIT.

LECTURERS:— F. GREEN. G. J. CASSIDY. N. GIBLIN.

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear more particularly on the practice of Dentistry. A full course of lectures, extending over one session, is given. In conjunction with the lecture course demonstrations bearing on physiology are given on patients in the hospitals.

*Text-book:*—Huxley's "Lessons in Elementary Physiology."

## PROSTHETIC DENTISTRY.

PROFESSOR:—GEORGE S. CAMERON.

ASSOCIATE PROFESSOR:—J. S. DOHAN.

The course in prosthetic dentistry will embrace lectures, illustrated by lantern slides, and practical work in the laboratory under the supervision of the demonstrator of technics. It will include the preparation of the mouth for dentures, impressions, and the properties of materials used in the construction of artificial dentures. The student will be required to construct the different forms commonly used. Attention is directed to the different functions to be performed by the denture in the restoration of the natural conditions as regards mastication, enunciation and the restoring of the features. Fractures of the jaw will be discussed, and the construction of interdental splints, as recommended by the different authorities, is detailed.

*Text-book:*—Wilson.

## PROSTHETIC TREATMENT OF CLEFT PALATE.

LECTURER:—OLIVER MARTIN.

Associated with the Department of Prosthetic Dentistry, a short practical course on the prosthetic treatment of cleft-palate will be given at the Hospital Clinic, in which the students take an active part under direct supervision of the instructor.

## CLINICAL INSTRUCTION.

Clinical instruction is given in the Operating Theatre and Out-Patient Department and in the Dental Clinic of the Montreal General Hospital. Abundant opportunity is afforded in this institution for the study of diseased conditions of the mouth and jaws, and for watching

operations in these regions. The Dental Clinic, established twelve years ago by the Hospital authorities, proved a success from the outset, and ample material for clinical study is now provided. Twenty thousand patients were treated at this clinic during the past session.

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. Instruction is given by Professor Thornton, Dental Surgeon in charge, assisted by the Superintendent and a capable staff of demonstrators. Anæesthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

### LIBRARY.

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a splendid departmental library dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 6 p.m.; Saturdays, 9 a.m. to 5 p.m.

### MUSEUM.

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties. During the session the Dental Museum will be available for teaching purposes.

# FACULTY OF LAW.

## GENERAL INFORMATION.

### AIM.

The aim of the Faculty is to provide a thorough training in the principles of law, using as a basis of instruction the law of the Province of Quebec. This law is derived in part from French and in part from English sources, its study involves constant reference to the two great modern juridical systems, and in consequence, it is especially well adapted to this purpose.

### ADMISSION.

Students who have successfully completed one year in the Faculty of Arts at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will be required either to pass the Senior Matriculation Examination of McGill University, or to satisfy the Matriculation Board that they are fully qualified for admission to the Second Year of the Arts course and have passed a satisfactory examination either in English or in French. In exceptional cases applicants over twenty-one years of age who have not attended a university may be admitted to the Faculty upon satisfying the Matriculation Board that they have obtained an educational standard equivalent to Senior Matriculation and are intellectually qualified to pursue with advantage the study of law.

Particulars of the Senior Matriculation Examination will be found on pages 75 to 78.

Students whose right to enter the Second Year of the Arts course is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Commencing with the session 1925-26, the standard of admission will be the completion of two years in Arts or its equivalent.

Women are admitted to the Faculty on the same terms as men, and are eligible for all degrees. As the law stands at present, however, they cannot be admitted to the Bar or to the notarial profession in the Province of Quebec.

### PARTIAL STUDENTS.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculating in the University. Such permission will only be granted to applicants of at least twenty-one years of age who satisfy the Faculty of their capacity to undertake with

advantage the study of law. They will not be allowed to proceed to degrees, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

## REGISTRATION.

All students must register in person at the office of the University Registrar between Monday, September 8th and Saturday, September 13th, both dates inclusive. Students who wish to consult the Dean personally with regard to their course should register not later than Thursday.

Students registering later than September 13th, will be required to pay a late registration fee of $5.00 during the first week of the session and $10.00 during the second. This will under no circumstances be refunded except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished.

New students, immediately after completing their registration, are required to attend in the Dean's office for the purpose of signing the admission book of the Faculty.

## DEGREE.

The degree granted in the Faculty is that of Bachelor of Civil Law (B.C.L.). The course covers three years.

No student under the age of 21 years will be eligible for a degree.

The degrees of LL.M. and D.C.L. are granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing these degrees are given in the Announcement of that Faculty.

The Faculty strongly recommends to all students who desire to attain distinction in their profession or who wish to take up the teaching of law the advantage of devoting an extra year to special study and preparing a thesis for the degree of LL.M. In the case of students who intend to practise in Montreal a course of special study is compatible with attendance in an office during the greater part of the day.

## MOOT COURTS.

Under the supervision of the professors moot courts are held from time to time during the session in order to afford students practice in the preparation and presentation of legal arguments. Regular attendance at these courts will receive credit as class-room work.

## LIBRARY.

The Law Library of the University at present contains over 7,500 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom, and France are taken, as well as a selection of reports from the United States and elsewhere. The annual appropriation for the maintenance of the Law Library has now been largely increased.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

Students in the Faculty are permitted to use the Library of the Court House, which contains in addition a large number of the principal American reports, both of the Federal and of the State courts. The general Library of the University is also available for the use of law students.

# COURSE OF STUDY IN LAW.

The Faculty of Law aims at giving a sound practical and scholarly education in the principles of:—

THE CIVIL LAW OF QUEBEC.
THE COMMON LAW AND STATUTE LAW OF CANADA (in so far as it is in force in Quebec).
CONSTITUTIONAL AND MUNICIPAL LAW.
PUBLIC AND PRIVATE INTERNATIONAL LAW.
ROMAN LAW.
THEORETICAL AND COMPARATIVE JURISPRUDENCE.

The following classification of the lectures will give an outline view of the teaching provided. It is liable to modification from time to time.

FIRST YEAR.

ROMAN LAW.
JURISPRUDENCE AND COMPARATIVE LAW.
IMMOVABLE PROPERTY.
OBLIGATIONS.
LAW OF PERSONS.
CRIMINAL LAW AND PROCEDURE.
CIVIL PROCEDURE
LEGAL HISTORY.

SECOND AND THIRD YEARS.

IMMOVABLE PROPERTY.
*EVIDENCE
*NEGOTIABLE INSTRUMENTS AND BANKING.
*COMMERCIAL SALES.
INSURANCE.
CORPORATIONS.
*BANKRUPTCY AND INSOLVENCY.
PUBLIC INTERNATIONAL LAW.
*PRIVATE INTERNATIONAL LAW.
AGENCY.
PARTNERSHIP.
SHIPPING and CARRIERS.
CONSTITUTIONAL LAW.
MUNICIPAL CORPORATIONS.
*WILLS, SUBSTITUTIONS, etc.
CIVIL PROCEDURE.
*MARRIAGE COVENANTS, etc.
LEASE, HIRE, and PRESCRIPTION.
SUCCESSIONS and GIFTS.
*PUBLIC UTILITIES.
ROMAN LAW.
NOTARIAL LAW (for notarial students only).

Each student will follow the course of study prescribed for him by the regulations of the Faculty. The progress of a student is reckoned by points. Each point represents the successful completion of a course of study involving attendance at lectures for one hour a week during one half-session. For example, a course of study involving attendance

*Lectures on these subjects will not be given in the session 1924-25.

at lectures for two hours a week throughout the whole session would have a credit value of four points.

A student may attend lectures not exceeding four points in value in any one session in addition to those prescribed for his course. No student can receive credit for such additional courses unless his attendance upon them has been approved by the Dean.

The Faculty desires to impress upon all students the necessity of obtaining a familiar knowledge of French. In this Province it is essential that a practising lawyer should be able to write and speak French with fluency, and students will find the ablity to read French easily necessary for the proper study of many subjects.

No student will be deemed to have passed his year unless he has obtained twenty-four points upon the studies of that year, and has an average mark of 60%.

## EXAMINATIONS.

There will be written examinations at the end of each session upon the work done during that session as well as term examinations. At the final examinations questions may be set upon any subject studied by the student during the three-year course. The written examinations may be supplemented by oral examinations in cases where the Faculty considers such action desirable.

At the close of each term or session all students must present themselves for examination in every subject for which they are registered. No student will be permitted to present himself for examination who has not regularly attended the lectures upon the subject, unless he has been prevented by some necessary cause and his absence has been excused by the Dean.

The pass mark is 50% for each paper and an average of 60% for the whole examination. Successful students will be graded in three classes, and the names of those in each class will be published in order of merit, but the marks awarded upon the various papers will not be published.

Subject to the approval of the Faculty in each case, a student who has been prevented by illness from taking certain papers in the sessional examination may be permitted to take supplemental papers on the same subjects in September. A fee of $5.00 will be payable in respect of each paper. No other supplemental examinations will be granted, but students who have obtained the requisite number of points may be permitted to present themselves again at the close of the next term for examination in the subjects in which they have previously failed.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

## PROGRAMME OF STUDIES.

Pending the preparation of a series of case-books suitable for Canadian use the lecturers will indicate to the students the cases and other authorities required for study in each course.

### FIRST YEAR LECTURES.

ROMAN LAW.

Three hours throughout the session. Professor Corbett.

CRIMINAL LAW.

Two hours in the first term. Professor Smith.

CRIMINAL PROCEDURE.

One hour in the first term and two hours in the second term.
Hon. Mr. Justice Greenshields.

OBLIGATIONS.

Two hours throughout the session. Hon. Mr. Justice Howard.

JURISPRUDENCE AND COMPARATIVE LAW.

Two hours in the first term. Professor Smith.

CIVIL PROCEDURE.

Two hours throughout the session. Hon. Mr. Justice Surveyer.

IMMOVABLE PROPERTY, PART I.

Three hours in the second term.

PERSONS (CIVIL CODE)

Two hours in the first term, one in the second.
Associate Professor LeMesurier.

LEGAL HISTORY (QUBEC).

Two hours in the first term.

### SECOND AND THIRD YEAR LECTURES.

The lectures to senior students are divided into two groups, given in alternate years.

## Subjects treated in the Session 1924-25.

LEASE, HIRE AND PRESCRIPTION.

Two hours throughout the session. Associate Professor Chipman.

PUBLIC INTERNATIONAL LAW.

Two hours in the first term. Professor Corbett.

CONSTITUTIONAL LAW.

Two hours in the first term. Professor Smith.
Two hours in the second term (Advanced Course).

INSURANCE.

Two hours in the second term. Assistant Professor Tyndale.

IMMOVABLE PROPERTY.

Two hours in the first term. Associate Professor LeMesurier.

CIVIL PROCEDURE.

Two hours in the first term. Hon. Mr. Justice Surveyer.

CORPORATIONS.

Two hours in the first term. Hon. Chief Justice Martin.

SUCCESSIONS AND GIFTS.

Two hours in the second term. Mr. Beullac.

ROMAN LAW.

One hour in the first term (for Third Year students only).
Professor Corbett.

CARRIERS.

One hour in the second term. Associate Professor LeMesurier.

MERCHANT SHIPPING AND ADMIRALTY LAW.

Two hours in the second term. Professor Smith.

MUNICIPAL LAW.

Two hours in the second term. Hon. Mr. Justice Rinfret.

AGENCY AND PARTNERSHIP.

Two hours in the first term. Associate Professor LeMesurier.

NOTARIAL LAW (FOR NOTARIAL STUDENTS ONLY).

Two hours in the first term. Mr. Bridgman.

Special tutorial classes for students in the Third Year will be conducted during the second term as follows:—

ROMAN LAW.

One hour. Professor Corbett.

CIVIL CODE.

Two hours. Associate Professor LeMesurier.

CIVIL PROCEDURE.

One hour. Associate Professor LeMesurier.

SPECIAL LECTURES.

The Hon. Mr. Justice Mignault will deliver two lectures on "Legal Ethics" in the course of each session.

### Other Subjects Given in the Second and Third Years.

The list given below corresponds to that arranged for the session 1923-24. Students will understand that it is liable to modification.

MARRIAGE COVENANTS AND MINOR CONTRACTS.
Associate Professor Chipman.

PRIVATE INTERNATIONAL LAW.
Professor Macdougall.

CIVIL PROCEDURE.
Professor Surveyer.

COMMERCIAL SALES.
BANKRUPTCY.
Hon. Chief Justice Martin.

NOTARIAL LAW (FOR NOTARIAL STUDENTS ONLY).
Mr. Bridgman.

WILLS AND SUBSTITUTIONS.
Mr. Beullac.

IMMOVABLE PROPERTY.
Associate Professor LeMesurier.

BANKING AND NEGOTIABLE INSTRUMENTS.
Associate Professor LeMesurier.

PUBLIC UTILITIES.
Hon. Mr. Justice Rinfret.

ROMAN LAW.
Professor Corbett.

EVIDENCE.
Professor Wainwright.

## ADMISSION TO THE PRACTICE OF LAW IN QUEBEC.

The attention of students who wish to be admitted to the Bar or to the notarial profession in Quebec is drawn to the following summary of the statutory provisions governing the practice of law in the Province:—

### I. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME MEMBERS OF THE BAR.

*N.B.—The articles are here abridged.*

Article 4522 R.S.Q.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations are held alternately in Montreal and Quebec every six months; namely, at Montreal, on the second Tuesday of each January, and at Quebec, on the first Tuesday of each July.

All information concerning these examinations can be obtained from the Secretary-Treasurer of the General Council. The present General Secretary is Mr. Victor Martineau, K.C., 17 St. James Street, Montreal.

Article 4524.—Candidates must give notice, as prescribed by this article, at least one month before the time fixed for the examination to the Secretary of the section in which he has his domicile or in which he has resided for the past six months.

Article 4475.—This article provides that candidates holding the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Letters, from any Canadian or British University are dispensed from the examination for admission to study. Such candidates are required to give the notice mentioned above.

Article 4526 R.S.Q. (as altered by by-law of the General Council).—On giving the notice prescribed by Article 4524, the candidate pays the Secretary a fee of $2.00, and makes a deposit of $125.00 for a complete certificate of admission to study; of $70.00 for a partial certificate of admission to study; and $200.00 for admission to practice, which deposit, less $30.00, is returned in case of his not being admitted.

Article 4531.—To be admitted to practice, the student must be a British subject and must have studied regularly and without interruption during ordinary office hours, under indentures entered into before a notary, as clerk or student with a practising advocate during four years, *dating from the registration of the certificate of admission to study.* This term is reduced to three years in the case of a student who has followed a regular law course in a university or college in this Province and taken a degree in law therein.

The By-laws passed by the General Council of the Bar of the Province of Quebec provide as follows:—

Article 51.—A course of lectures on law given and followed at a university or law school of this Province, and the diploma or law degree conferred on students by such university or law school, shall count with reference to the Bar Act, only if the course of study hereinafter outlined has been effectively followed by the university or law school and by the holder of the diploma. (R.S.Q., ss. 1483, §4531.)

Article 52.—A regular law course in a university or law school of this Province consists of seven hundred and eighty-five lectures of one hour each. These lectures are given on the various subjects in the following proportions:—

Roman Law:—103 lectures:—This course comprises an introduction to the study of law, with explanatory remarks and comments on the Institutes of Justinian and on the principal Roman jurisconsults.

Civil, Commercial and Maritime Laws—413 lectures:—The course on these subjects must cover a period of at least three years. It comprises the history of French and Canadian law, explanatory remarks and comments on the Civil Code and on the statutes respecting commerce and shipping.

Civil Procedure:—103 lecures:—This course must extend over at least two years. It comprises explanatory remarks and comments on the Code of Civil Procedure and of its statutory amendments, a study of the organization of the Civil court of this Province and the history of the different judicial systems of the country; also the special modes of procedure provided by the statutes and by the by-laws in general, as well as the Bar Act and the By-laws regarding the discipline of the Bar.

Public and Private International Law:—21 lectures:—This course comprises an historical outline, the sources of this law and of its subject matter, its objects (primary and secondary rights of sovereign states), rules of war, commercial and extradition treaties, etc., in force in Canada, as well as the rights and obligations of the citizens of the Province of Quebec and of Canada, and of aliens in the event of conflict of laws.

Criminal Law—69 lectures:—This course comprises the history of Canadian criminal law, the organization of the criminal courts, criminal procedure, comments on the criminal law of the country, a comparative study of English and Canadian criminal law. The lectures shall extend over two years.

Constitutional and Administrative Law:—41 lectures:—This course comprises an enquiry into the different constitutional enactments

and public institutions of the country, the powers, the organization, the procedure of the Federal Parliament and of the Provincial Legislatures, the laws on Education, and the Municipal Code.

COMPARATIVE LAW:—30 lectures:—This course comprises a concise enquiry into the English common law, and a general knowledge of the main principles underlying the civil and commercial laws of the other Provinces of Canada.

Article 53:—The candidate for admission to practice who has obtained a law degree from a university or law school of this Province, must file, together with this notice, a certificate from the Principal or Head of such university or law school establishing that he has followed a law course in such university or law school during at least three years in conformity with the Bar Act, and moreover specifying the number of lectures he has actually attended in each subject comprised in the foregoing curriculum during each of the three years and during the three years as a whole.

Article 54:—The examiners must refuse to accept such degree as valid under the provisions of the Bar Act, if they are of the opinion that the course of study hereinabove outlined has not been effectually followed by the candidate.

### II. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME NOTARIES.

For the regulations applicable to candidates for the notarial profession, see Revised Statutes of Quebec, Articles 4774-4807.

# FACULTY OF MUSIC.

## SESSIONAL ANNOUNCEMENT.

The work of the Conservatorium of Music for the session 1924-25 will begin on September 15th, 1924, and will end on June 13th, 1925. It consists of three terms of eleven weeks each, **with an additional summer term of three weeks, viz.:—**

(a) September 15th to November 29th.

(b) December 1st to February 28th (Christmas vacation December 22nd to January 3rd inclusive).

(c) March 2nd to May 23rd (Easter vacation, April 10th to April 16th inclusive).

(d) May 25th to June 13th (short summer term).

Lectures, arranged in progressive courses, are offered as forming part of a connected curriculum, leading to Certificates and Diplomas, as well as to Degrees in Music in the University.

The lectures will begin in the first week of October, and extend over three terms of ten weeks each, viz.:—

(a) October 6th to December 13th.

(b) December 15th to March 14th.

(c) March 16th to May 23rd.

The examinations in Montreal for Certificates and Diplomas will be held towards the end of the third term, i.e., from May 18th to May 30th. The Theoretical Examinations which precede the Practical Local Examinations will be held on May 6th.

## ADMISSION.

Students of the Conservatorium will be admitted either as:—

**Regular Students,** taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music, or the Degree of Bachelor of Music in the University.

**Senior Partial Students,** who, besides individual instruction in the one principal subject, take two classes. Instrumentalists will, at the discretion of the Director, be assigned to two of the following classes: Theory, Harmony, History, Form and Analysis, Ensemble Playing. Vocalists will be assigned to two of the following classes: Theory, Sight-Singing, Elocution and Diction, Choral Class.

## CONSERVATORIUM REGULATIONS.

1. Fees will not be refunded, nor will the length of the term be extended on account of temporary absence. Absence from lessons caused by prolonged illness may be allowed for, provided the Secretary is notified and a Doctor's certificate presented.

2. No business matters can be arranged through the instructors, but must be transacted through the office.

3. Students cannot register for less than a term and must notify the Secretary, at least a week before the end of the term, if they wish to discontinue lessons, otherwise it is understood that lessons will be continued through the following term.

4. Any lessons missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed by students will be their loss, unless a Doctor's certificate is produced.

5. An attendance book is kept by each instructor, and the Secretary is notified of any irregularity of attendance or absence of pupils through serious illness.

6. Every partial student must attend at least two-thirds of the lecture classes in each term, or in default be charged the higher fee as a repertoire student.

7. No student suffering from an infectious or contagious disease, or who is, in the opinion of a competent medical attendant, in any way brought into contact with any person infected with such disease, will be admitted.

8. Students are required to be punctual at lessons, lectures, concerts and examinations.

9. Notices on the bulletin boards are official, and students are requested to pay due attention to such as may be posted there.

10. No change in course or teacher can be made without first obtaining the consent of the Director.

11. Students must be prepared for examinations by the instructor to whom they are assigned.

12. Students wishing either to take part in any public musical performance, publish a composition, or accept a professional engagement, must first obtain the consent of the Director.

13. The name of each lecturer and the hours at which the classes are held will be posted on the notice boards.

14. None but registered students of the Conservatorium can take part in either recitals or concerts.

15. Visitors will not be allowed to be present during any lesson (class or private) except by permission.

16. The Director has the right to refuse or to cancel at any time the registration of any individual whose presence in the Conservatorium may appear detrimental to its interests.

17. Smoking within the building is absolutely prohibited.

## REQUIREMENTS FOR DEGREES AND DIPLOMAS.

(For Fees, see page 116.)

### DEGREE OF DOCTOR OF MUSIC.

Bachelors of Music of McGill University, after a lapse of a period of five years from the time of taking the Degree of Bachelor of Music, may proceed to the Degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying no less than forty minutes in performance. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores of certain prescribed works.

Graduates of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus. Bac., if they wish to proceed to the further degree of Mus. Doc., provided they secure permission to do so from the executive of the Faculty of Graduate Studies and Research.

Full particulars can be obtained from the Registrar of the University.

### DEGREE OF BACHELOR OF MUSIC.

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).
3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c. each.

### The Matriculation Examination.

The Matriculation Examination is held yearly, in June and September, at McGill University and at various centres throughout the Dominion. Candidates for musical degrees will be examined in the following:

1. English (two papers).
2. History (one paper).
3. Two out of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Arithmetic or Algebra or Geometry (one paper).
5. Rudiments of Music (musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh) (one paper). The paper set will be similar to that for the Senior Grade of the local examination in Music.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University. Before being admitted to Undergraduate courses in Music, candidates must satisfy the Dean of the Faculty of Music that they are sufficiently advanced in their chief and second practical studies.

### First Examination in Music.

(a) Harmony in three and four parts.

(b) Counterpoint up to three parts.

(c) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on form shown in the works of the classic composers.

(d) General outlines of musical history.

(e) Chief and second practical study. One of these may take the form of the composition of a song or songs, *or* a miniature suite for a solo instrument or any combination of instruments.

### Second Examination in Music.

(a) Harmony in not more than four parts.

(b) Counterpoint (strict and free) in not more than four parts

(c) Canon in two parts and fugal exposition up to four parts.

(d) History of music from the 16th century to present day.

(e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics or physiology of the voice.

(g) Chief and second practical study, *or,* instead of one of these, the composition of:—

(1) A movement in sonata form for pianoforte (or piano and violin, or any other combination),

or

(2) A choral movement with independent accompaniment,

or

(3) A suite for strings.

The possession of the Diploma of Licentiate of Music obtained either under Class I. or Class III. from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. Bac., and, accordingly, candidates can proceed direct to the Final Examinations, provided that they have matriculated.

**Final Examination in Music.**

(a) Harmony up to five parts.

(b) Counterpoint (strict and free) up to five parts.

(c) Double Counterpoint in 8ve, 10th, and 12th.

(d) Canon and fugue in three and four parts.

(e) History of music from the earliest time to the present.

(f) Form and analysis. Knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's, and Brahms' Songs; Mendelssohn's Psalms and such Oratorios as Elijah and St. Paul; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn. Candidates should send in a list of works in which they are prepared to be examined, a few weeks before the date of examination.

(g) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight of a short excerpt from an easy score of a classic composer.

(h) Chief and second practical study or, in lieu of both of these, a composition can be sent in by the candidate, containing four-part chorus, a solo or duet, an unacompanied quartette and a four-part fugue. The whole work (except the quartette) must be scored for stringed instruments in such a way as to show considerable independence between voices and instruments. If preferred, this composition can take the form of a string quartette containing not less than three movements.

## REGULATIONS FOR DIPLOMA OF LICENTIATE OF MUSIC.

**(For Fees, see page 116.)**

Candidates may elect to be examined either in:—

Class 1—Theoretical Subjects and Composition, or
Class 2—Practical Subjects as Performers, or as
Class 3—Teachers in both Theory and Practice.

The following are the requirements of each branch:—

### Class 1.—Theoretical Subjects and Composition.

### First Examination.

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) Harmony in four parts up to and including chords of the ninth, passing notes and suspensions; also the Harmonization of a Melody.

(c) Counterpoint in two parts.

(d) Viva voce examination in rudimentary Composition and Extemporization.

N.B.—If candidates can produce certificates of having passed in the Highest Grade of the theoretical local examinations, they will be excused all but the last test, which can be taken at the same time as the second examination.

### Second Examination.

Requirements a, b, c and d, are the same as those for the First Examination for Mus. Bac. (See page 393.)

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination). The MS. should be sent in at least a month before the date of examination to the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal.

### Third Examination.

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. Bac. (See page 393.)

(f) Practical work at pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and piano, or any other combination); or (2) a Chorus with independent accompaniment; or (3) a Suite for Strings. This should be sent in beforehand.

## Class 2.—Practical Subjects as Performers.

### First Examination.

(a) Rudiments of Music, including Sight Reading and Ear Tests.

(b) Easy Transposition Tests (for instrumentalists only).

(c) Diction in respect of Modern Languages (for singers only).

(d) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations.

### Second Examination (Semi-Final).

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, will be found under separate headings.

#### PIANOFORTE.

(No written examination.)

1. *Scales.*

Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, and 6th; also in double 3rds and double 8ves.

The candidate must be prepared to play all the above-mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch.

2. *Arpeggios.*

Common chords, dominant and diminished 7ths, with inversions and with hands either an 8ve, 3rd, 6th, or 10th apart, in similar and contrary motion, also in double octaves, legato and staccato.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semi-tone above or below.

5. *Performance.*

(a) One of the more difficult of the 48 Preludes and Fugues, or, Part of a Suite or Concerto ..... J. S. BACH

(b) One of the more difficult Etudes, Op. 100 Bk. I..... KESSLER

or

Etude No. 5..... PAGANINI-LISZT

(c) Sonata Op. 22 or Op. 26 or Op. 28 (D major)..... BEETHOVEN

(d) Any one of the Novellettes..... SCHUMANN

or

Toccata and Clair de Lune..... DEBUSSY

or

Any one of the following Etudes, Op. 10.
Nos. 4, 5. Op. 25, No. 16..... CHOPIN

or

Any one of the Nocturnes..... CHOPIN

(e) A piece of the candidate's own choice.

Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLIN.

(No written examination.)

1. *Scales.*

C major in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves

with various bowings. Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

All major and minor common chords, dominant 7ths, and diminished 7ths in three octaves. No 7 from Sevçik Violin School, Op. 1, Part III, may be presented for this test.

3. *Reading at Sight.*

4. *Performance.*

Candidates must prepare any two Etudes from each of the following composers:—Kreutzer, Fiorillo, and Rode, and also play the first movement of No. 22, Concerto, Viotti, or a first movement from any one of the Spohr Concertos.

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLONCELLO.

(No written examination.)

1. *Scales.*

Major, minor (melodic form), and chromatic scales in all keys.

2. *Arpeggios.*

Studies Nos. 10 and 15 J. L. Duport.

3. *Reading at Sight.*

4. *Performance.*

(a) Suite No. 2.....J. S. BACH
(b) Sonata (last two movements).....BRAHMS

or

Sonata No. 1 (First Movement).....BEETHOVEN

or

Sonata No. 1 (First Movement.....MENDELSSOHN

(c) Also any two of the following pieces:—

Rondo ..... BOCCHERINI
La Serenata (published by Schirmer) ..... V. HERBERT
Le Soir (published by Leduc) ..... L. VIERNE

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history. Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS.

Requirements will be forwarded to candidates on application to the Secretary, 323 Sherbrooke Street West, Montreal.

ORGAN.

(No written examination.)

1. *Scales.*

(a) Manuals only (with both hands).
(b) Pedals only.
(c) One manual only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.

In the case of (a) and (c) contrary motion may be required.

2. *Arpeggios.*

(a) For pedals through two 8ves; common chords, major and minor, in keys of C, D flat, D, E flat, E, and F.
(b) One hand and pedals combined, in contrary motion.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semitone above or below.

5. *Performance.*

Prelude and Fugue in G major ..... J. S. BACH
(Vol. VIII, Bridge and Higgs' Edition)

Elegie and Toccata-Prelude ..... BAIRSTOW
(Published by Augener)

or

Three Rhapsodies No. 2 or No. 3 ..... H. HOWELLS
(Published by Augener)

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history. Candidates must be prepared to answer any advanced questions on rudiments of music.

SINGING.

(No written examination.)

1. *Scales and Technical Exercises.*

Major, minor, and chromatic scales at varying degrees of speed. (For examples, see Randegger's Singing Primer, pages 38, 41 and 48.) Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

See Randegger's Singing Primer, pages 102, 104 and 107.

3. *Reading at Sight.*

4. *Prepared Work.*

Studies.

Soprano or Tenor—Any two from No. 1 to No. 17 Fourth Series Part I. 30 Solfeggios.....VITTORIO RICCI

Alto or Bass—Any two from No. 1 to No. 17 Fourth Series. Part II. 30 Solfeggios.....VITTORIO RICCI

Medium Voices—Any two from No. 1 to No. 17 Fourth Series. Part III. 30 Solfeggios.....VITTORIO RICCI

The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

(a) One or two specimens of Recitative.

(b) Two solos from an Oratorio or Oratorios.

or

Two Solos from an Opera or Operas.

(c) One song by any of the following composers:—SCHUMANN, SCHUBERT, FRANZ, BRAHMS, LOEWE, PARRY, ELGAR, WOLF, HENSCHEL, STANFORD, RONALD, SCOTT, IRELAND.

(d) One song by any of the following composers:—GOUNOD, MASSENET, GERMAN, BALAKIREFF, LISZT, MALLINSON, MACDOWELL, GRIEG, HAHN, SIBELIUS.

(e) One or two specimens of Folk Songs.

6. *Questions.*

Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.

Questions may be asked on the more advanced rudiments of music.

## Third Examination (Final).

The requirements for candidates whose chief study is either Pianoforte, or Violin, or Violoncello, or Organ, or Singing, will be found under separate headings. There is no written examination.

### PIANOFORTE.

1. *Transposition Test.*

The transposition of a passage a tone above or below.

2. *Sight Reading Test.*

3. *Questions.*

Questions will be asked on musical history from the 16th century to the present day.

4. *Performance.*

(a) Prelude and Fugue C sharp major Bk. 1 or
A flat major Bk. 2.....J. S. BACH
or
Toccata in G major.....J. S. BACH
or
Prelude and Fugue in A minor.....J. S. BACH
(Arranged by Max Vogrich)
or
Prelude and Fugue in E minor.....MENDELSSOHN

(b) Any two of the following Etudes, Op. 10, Nos. 1, 2, 7, 8, 9.
Op. 25, No. 6.....CHOPIN
or
Two contrasted studies from Bks. 2 or 3 Op. 100.....KESSLER
or
Etude (on false notes).....RUBINSTEIN
or
Any one of 6 Etudes Op. 111 Book 2.....SAINT-SAËNS

(c) Sonata Op. 109, or Op. 57 or Op. 31 No. 3.....BEETHOVEN

or

A Concerto by a classical or modern composer.

(d) Etudes Symphoniques (Tema and any 3 Etudes)..SCHUMANN

or

Sonata in E minor.....SJÖGREN

or

Intermezzi (any two).....BRAHMS

or

Theme and Variations Op. 16 No. 3.....PADEREWSKI

(e) Lotus Land.....CYRIL SCOTT

or

Slavonic Dances Op. 46 (any two).....DVOŘÀK

or

Reflets dans l'eau.....DEBUSSY

or

Ballade Op. 52.....CHOPIN

(f) Au bord d'une source.
Tarantelle .....LISZT

or

Danse des Elfes.....SAPELNIKOFF

(g) A piece of the candidate's own choice.

Note.—Candidates must be prepared to play some, if not all, of these from memory.

5. *Short Examination in Second Study.*

Certificates gained in any of the three highest grades of the local practical examinations will exempt candidates from this test, whether the subject chosen is Organ or Violin, or Violoncello, or Singing.

VIOLIN.

1. *Sight Reading Test.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day.

3. *Performance.*

(a) First movement of any of the ten Sonatas.....BEETHOVEN
(For Violin and Pianoforte.)
And any one movement of either of the two Sonatas. T. IRELAND

(b) Any one of the following Concertos may be selected by candidate:—

BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAËNS in B minor, BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.

(c) Romance in F minor.....SINDING
Havannaise .....SAINT-SAËNS
Rhapsodie Piedmontèse.....SINIGAGLIA

4. *Short Examination in Second Study* (which must be the Pianoforte).
Certificates gained in any one of the three highest grades of the local practical examinations in pianoforte will exempt candidates from this test.

VIOLONCELLO.

1. *Reading at Sight.*

2. *Questions.*
Questions will be asked on Musical History from the 16th century to the present day.

3. *Performance.*
Sonata in A major (1st movement).....BEETHOVEN
Serenade-Waltz .....HERBERT SHARP
Spanish Nocturne.....E. GOOSENS
(Pub. in one book by Hawkes & Son.)
Concerto in A minor.....SAINT-SAËNS
Sonata .....GRIEG
A la fontaine (Fisher Edition).....DAVIDOFF

4. *Short Examination in Second Study* (which must be the Pianoforte).
Certificates gained in any one of the three highest grades of the local practical examinations will exempt candidates from this test

ORGAN.

1. *Transposition and Modulation Tests.*
The transposition of a passage into another key not exceeding a tone above or below. Modulation.—Candidates are advised to

make their modulations musically and not only mathematically correct.

2. *Sight Reading Test.*

3. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day.

4. *Performance.*

Of one piece from each of the following lists:—

(a) Sonata in E flat.....BACH
Prelude and Fugue in D major.....BACH
Introduction and Passacaglia.....MAX REGER
Introduction, Passacaglia and Fugue.....HEALEY WILLAN
(Published by Ditson)
Fantasia in F minor.....MOZART

(b) Sonata in D minor.....RHEINBERGER
Sonata in E minor.....MERKEL
Sonata in C sharp minor.....HARWOOD
Sonata No. 4 in B flat major.....MENDELSSOHN

(c) Postlude in E flat.....GUILMANT
Dithryamb.....HARWOOD
Fantasia in E flat.....SAINT-SAËNS
Symphony No. 5 or No. 6, any two movements.....WIDOR

5. *Short Extemporization on a Given Theme.*

Optional test.

6. *Short Examination in Second Study.*

Certificates gained in any one of the three highest grades of the local practical examinations will exempt candidates from this test, whether the subject chosen is Pianoforte, or Violin, or Violoncello, or Singing.

SINGING.

1. *Performance.*

(a) Studies:

Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part 1, of 30 Solfeggios.....VITTORIO RICCI
Alto or Bass—Any two from No. 18 to the end of the Fourth Series Part II, of 30 Solfeggios.....VITTORIO RICCI

Medium Voices—Any two from No. 18 to the end of the Fourth Series Part III, of 39 Solfeggios.....VITTORIO RICCI

(b) The solo work from part of an Opera (an act or scene), or the solo work from a whole Oratorio.

(c) Songs in various languages to exemplify proficiency in diction.

2. *Sight Reading Test.*

3. *Questions* on Musical History from the 16th century to the present day.

6. *Chief Study.*

The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to satisfactorily specify other work on which any individual candidate shall be examined. The Examining Board will be prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate shall, after examination, be awarded the Diploma:—

(a) As soloist for Concert Work only.

(b) As soloist for Light Opera.

(c) As soloist for Grand Opera.

(d) As soloist for Oratorio.

(e) As soloist for a combination of any of these.

Candidates should, after passing the Second Examination, submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

Second Study (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte will exempt candidates from this test.

The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination, together with the reading of a song accompanied at first sight, will be accepted as second study.

CLASS 3.—TEACHERS' EXAMINATION (THEORY AND PRACTICE).

### First Examination.

(Partly written and partly viva voce.)

1. Advanced Rudiments.
2. A knowledge of harmony up to chords of the 7th. Analysis of given chords or passages, and harmonization of an easy melody and figured bass.
3. Chief Study.

   Candidates will be expected to show sufficient executive ability to perform the technical work, studies, and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Senior Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

### Second Examination (Semi-Final).

(Partly written and partly viva voce.)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes.
2. Counterpoint in two parts.
3. General outlines of Musical History.
4. The principles of Elementary Form and Analysis.
5. Chief Study.

   The requirements for this will be the same as for the Semi-Final Performers' Licentiate (see pages 21 to 25).
6. Second Study.

   The requirements will be similar to those of the Senior Grade of the local examinations.

   If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

### Third Examination (Final).

(Written Examination.)

1. Harmony and Counterpoint in not more than four parts.
2. History of Music from the 16th century to the present day.
3. Form and Analysis.

4. Some acquaintance with the principles of the Physiology of the Voice or of Acoustics.

5. A paper on the Art of Teaching of the candidate's chief subject.

Candidates must write a paper, which should be sent at least a week before the examinations, dealing with technical difficulties met with in teaching, and how to overcome them, also giving a graduated list of studies and pieces best adapted for the development of this branch of musical study. The paper must be the unaided work of the candidate, and be accompanied by a declaration to that effect.

## Viva Voce Examination.

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

### PIANOFORTE.

1. (a) To demonstrate method of instruction as regards posture, finger-training, wrist and arm action, etc.
(b) To illustrate gradations of touch.
(c) To differentiate between mechanical and æsthetic expression.
(d) To explain the principles of fingering, and, if required, to finger passages.
(e) To distinguish between use and misuse of pedals.
(f) To illustrate good part playing.

If thought necessary by the examiner a student (not a pupil of the candidate) will be in attendance, so that the candidate may more easily and effectually demonstrate his or her ability to deal in a practical manner with the above points, and any others which may occur.

2. Candidates must be prepared to play the following:—

(a) English Suite, No. 11, in A minor, or No. 4 or Prelude and Fugue No. 15 in G ..... BACH

(b) Sonata. Op. 53, or Op. 57 ..... BEETHOVEN.

(c) Humoresque, or Carneval ..... SCHUMANN

(d) Any one of the Etudes ..... CHOPIN
and Rhapsodie Hongroise No. 13 or 14 ..... LISZT

(e) A piece of the candidate's own choice by a modern English, French or Russian Composer.

3. Sight Reading Test.

VIOLIN.

1. To demonstrate method of finger-training and bowing, posture, and fingering, also to finger and bow certain passages, if required.
2. With a student in attendance (who must not be a pupil of the candidate), to give that student a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.
3. To differentiate between mechanical and æsthetic expression.
4. To show ability to accompany on the pianoforte.
5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORILLO, RODE, ROVELLI and GAVINIES.
6. Pieces.

First movement of any of the ten Sonatas for Violin and Pianoforte ..... BEETHOVEN

La Folia ..... CORELLI-LEONARD

Concerto:

Any of the following:—BEETHOVEN, MENDELSSOHN, ERNST in F sharp, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKI, SAINT-SAËNS in B minor, BRAHMS, WIENIAWSKI.

Romance in B. minor ..... SINDING

or

Havannaise ..... SAINT-SAËNS

or

Rhapsodie Piedmontèse ..... SINIGAGLIA

7. Sight Reading Test.

VIOLONCELLO.

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play:

Nos. 11, 16 and 20 studies ..... DUPORT

Any one of the five Sonatas (selected by the candidate) ..... BEETHOVEN

To show a general knowledge of the Six Suites ..... J. S. BACH

Also, "A la Source," Op. 20, No. 2 ..... DAVIDOFF

Romance ..... WAGNER-POPPER

ORGAN.

1. To demonstrate method of instruction by means of a specimen lesson given to a student (not a pupil of the candidate) for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.

2. To answer questions and offer suggestions after the student has retired as to the improvements which may be necessary.

3. To answer questions as to the causes of difference of tone between the various stops.

4. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.

5. To be prepared to play the following pieces:—
   A Sonata by Bach, also a Sonata by either Mendelssohn or Rheinberger or Merkel, and a piece by a modern composer selected by the candidate.

6. Sight Reading Test.

7. To extemporize and transpose.

SINGING.

1. To demonstrate method of instruction by means of a specimen lesson given to a student (not a pupil of the candidate) in proper methods of breathing, tone, attack, unevenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.

2. To make a report and offer suggestions after the student has retired.

3. In passages given by the examiner, to phrase or put in breath marks.

4. Candidates must be prepared to give illustrations of Recitative, Solo singing in Opera or Oratorio, and to sing one song of any one composer in each of the following three groups:—

   (a) BACH, HANDEL, MOZART, BEETHOVEN, MENDELSSOHN, SCHUBERT, SCHUMANN.

(b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.

(c) GOUNOD, MASSENET, GERMAN, BALAKIREFF, LISZT, MALLINSON, GRIEG, HAHN, and DEBUSSY.

To read (at the pianoforte) a simple accompaniment at sight, and also transpose within the limits of a major second above or below.

## EXAMINATION FOR CERTIFICATE SHOWING CANDIDATE'S FITNESS AS MUSIC INSTRUCTOR FOR CLASS WORK IN THE ELEMENTARY SCHOOLS.

**Fee $6.00.**

THEORETICAL.

The examination will be in two parts: (a) Written; (b) Viva Voce.

In the written part of the examination a paper will be given dealing with the general questions on the teaching of class singing in an elementary school.

The paper will be divided into four parts: (a) Voice Training; (b) How to teach Sight Singing in the Movable Doh System, using Solfa syllables only, and on its application to the staff notation; (c) Ear Training; (d) The teaching of songs.

As regards (b) emphasis will be laid on the mental effect produced when teaching tune, and on the use of time names when teaching rhythm in both notations.

The following text books are recommended:—

"Voice Culture," Part I; Chap. 1-3 inclusive.....BATES
(Published by Novello)

"The School Music Teacher," Chap. 1-7 inclusive and Appendix II and III (Published by Curwen).....EVANS and MCNAUGHT

PRACTICAL (ELEMENTARY).

1. Sight Singing.

Two tests will be given, one in Solfa syllables only and one in Staff Notation, containing leaps to any note of the diatonic scale, with a transition to either 1st sharp (dominant) or 1st flat (subdominant) key, and containing chromatic notes introduced stepwise. Only the following divisions of the beat will be used, half beat, three-quarters and a quarter, with some sustained notes. In Staff only the following time-signature will be used, 2/4, 3/4, 4/4, 6/8. One of the tests will be in the minor mode, containing the sharpened sixth and seventh. (Not more than three attempts will be allowed, and the last time the test will be sung to la.)

2. Time.

   Two tests will be given, one to Solfa syllables, and one in Staff Notation, to be sung first to time-names, and then to a monotone. (Two attempts allowed.)

   In 2/4, 3/4, and 4/4 time (two, three and four pulse measure) the beat may be divided, into halves, triplets, or any division containing one or two quarters. In 6/8 time (six-pulse measure) the more minute divisions of the beat will not be given.

3. Ear Test.

   (a) The candidate will write down in either notation a short phrase of not more than six notes. The name of the key will be given and the tonic chord (d.m.s.) sung or played each time.

   (b) The time names of a short passage will be asked and the passage must be written down in either notation. The tempo will be given. (Two attempts allowed.)

4. Candidates must be prepared to write on a black-board, as for a class, a short sight-singing test in both notations.

## EXAMINATION FOR CERTIFICATE SHOWING CANDIDATE'S FITNESS AS MUSIC INSTRUCTOR FOR CLASS WORK IN HIGH SCHOOL OR COLLEGIATE INSTITUTE.

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**Fee $10.00.**

PART I (THEORETICAL).

A paper will be given demanding a more comprehensive knowledge of the methods and principles involved in the teaching of class singing. This paper will be divided into the same number of sections as the elementary paper, the following text-books being recommended for information:—

"Voice Culture," Part I. (published by Novello).....BATES
"The Singing Class Teacher" (published by Williams).FIELD HYDE

Part II (PRACTICAL).

1. Sight Singing.

   Two tests will be given, one in Solfa Notation only, and one in Staff Notation, containing more difficult leaps as well as leaps to chromatic notes with a transition to some more remote key. One of the tests will be in the minor mode containing a transition. (Not more than three attempts will be allowed and at the last attempt the test must be sung to la.)

2. Time.

   Two tests will be given, one to Solfa Syllables and one in Staff Notation, sung first to time-names and then to la. (Two attempts allowed.) The pulse will be divided into more minute divisions, and syncopation will be introduced.

3. Ear Test.

   (a) The candidate will write down in either notation, in time and tune, a short melody. The name of the key will be given and the tonic chord (d.m.s.) sung or played each time.

   (b) The time names of a short passage will be asked and the passage must be then written down in either notation. The pulse will be more divided than in the elementary grade. The tempo will be given. (Two attempts allowed.)

4. Three school songs must be chosen and prepared by the candidate and sung to his or her own accompaniment. Two of the songs should be of the folk-song and one of the art-song type. Correct voice production and interpretation will be a necessity.

## LOCAL CENTRE EXAMINATIONS IN MUSIC.

**(For Centres with Local Requirements, see pages 417-419.)**

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it grants Degrees in Music and a Diploma of Licentiate, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Dr. Harry Crane Perrin, the Dean of the Faculty of Music and Director of the Conservatorium.

### GENERAL REGULATIONS.

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 323 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local representatives or local secretaries. (See pp. 417-419).

2. A local representative of McGill University will supervise the conduct of the theoretical examinations at each centre. All papers will be sent to McGill University itself, and, in the case of the local examinations, examined by a Board consisting of at least three examiners.

3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the school. (See page 420).

5. Similar arrangements may be made with regard to Class Singing (See page 420).

6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, which must, however, reach him at least five days before such examination, to transfer a candidate to the next examination without further fee.

7. As an additional assurance of fair treatment of every candidate, two examiners will be present at each examination in practical subjects throughout the Dominion, wherever it is at all possible to arrange that such shall be the case. This must necessarily largely depend on the number of candidates presenting themselves for examination.

8. Examinations will be arranged by the Secretary when required, and new centres formed where not less than ten candidates are entered, provided the amount of fees is sufficient to meet the expenses incurred.

## ADVICE TO TEACHERS AND CANDIDATES.

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Lowest or Primary grade and leading on through the Diploma examination for Licentiate of Music to that for the Degree of Mus. Bac.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use the music of the lower grades at the beginning of the winter, and should not begin too early with the actual grade book selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

4. Books for the last ten years, which contain well-assorted standard studies and pieces, will be found useful by teachers and pupils alike whether for repertoire study, reading at sight, or analysis purposes. Price 50c. per book, obtainable from the General Secretary.

## REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES.

1. Theory examinations will be held throughout the Dominion on May 6th, 1925. In the case of candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, the result of the latter will be communicated to them at least a week beforehand, so that, if successful in passing, they can proceed to the practical examination; if unsuccessful, they can still proceed to

the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination. A special charge for this supplemental examination will be found under fees on page 45. An alternative is provided for unsuccessful candidates in the May theoretical examinations; instead of presenting themselves for the ensuing practical examinations they are either entitled to a refund of the proportion of fee paid or to present themselves for the examination of the same grade the following year.

2. Practical examinations will be held during May and June, 1925.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the examination fee, MUST REACH THE SECRETARY IN MONTREAL ON OR BEFORE APRIL 1st, 1925.

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects. They will be of two kinds in each grade: (a) Distinction; (b) Pass.

5. These certificates do not entitle the holders to append any letters to their names.

6. The maximum number of marks obtainable in each practical subject is 150, of which 100 entitles to a Pass and 130 to Distinction.

7. The maximum number of marks obtainable in each theoretical subject is 150, of which 100 entitles to a Pass and 130 to Distinction.

8. No special textbooks are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. No particular edition is prescribed for pieces found in the syllabus, but for the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from the various local music dealers.

9. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.

10. Candidates entering for practical subjects must, in all grades except the two last (Elementary and Lowest), previously work a theory paper of the preceding lower grade during the same year or the preceding year.

11. Only one candidate at a time is allowed to be in the examination room for practical examinations.

12. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only to accompany the songs and pieces.

13. The examiner's decision is final, and cannot be reconsidered.

14. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificate must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate if required.

15. The possession of certain certificates gained in the Local Examinations will entitle the holders to claim exemption from certain parts of the examinations for the Diploma of Licentiate in Music, should they at a later date decide to proceed to the higher examinations for that Diploma.

## LOCAL CENTRES.

The following places have been at present adopted as centres for public examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as some of those for Degrees and Diplomas, will be held at these centres:

Victoria ..... Representative: Principal of the High School.
Secretary: Dr. J. E. Watson, 1002 Fort St.

Vancouver ..... Representative: G. E. Robinson, Esq., B.A., British Columbia University.
Secretary: Frederick Chubb, Esq. M.A., Mus. Bac., 916 Nicola St.

Penticton ..... Representative: Rev. Canon G. Thompson.
Secretary: Mrs. D. Hislop.

Cranbrook ..... Representative: H. L. Porter, Esq., B.A., Principal of High School.
Secretary: Bruce Robinson, Esq., Box 762.

Vernon ..... Representative: Howard De Beck, Esq.
Secretary: Miss Bertha Dillon, L. Mus., The Grange.

Fernie ..... Representative: Mrs. H. J. Johnson.
Secretary: Miss S. E. West.

Nelson ..... Representative: H. E. Dill, Esq., 418 Mill St.
Secretary: Miss Olive Campbell, L. Mus.

Calgary .....Representative: A. Calhoun, Esq., City Librarian, Public Library.

Edmonton .....Representative: Rev. N. D. Keith.
Secretary: Mrs. O. J. Walker, 11103, Saskatchewan Drive.

Lethbridge and Macleod.Representative: W. A. Buchanan, Esq., M.P.
Secretary: George E. Bower, Esq., L.R.A.M., A.R.C.M.

Medicine Hat.....Representative: W. E. Hay, Esq., Superintendent of Schools.

Moose Jaw.....Representative: A. H. Gibbard, Esq., City Librarian, Pub. Library.
Secretary: Miss Esmè Rose, 523 Hochelaga Street West.

Saskatoon .....Representative: W. A. Gilchrist, Esq., Canada Bldg.
Secretary: Geo. C. Palmer, Esq.

Wolseley .....Representative:
Secretary: Mrs. Allan P. Thomson.

Indian Head.....Representative: Rev. J. Smith-Windsor.
Secretary: Cecil C. Halleran, Esq., L. Mus.

Regina .....Representative: President of Regina College.
Secretary: F. G. Killmaster, Esq.

Fort Qu'Appelle.....Representative: W. M. Thompson, Esq.

Brandon .....Representative: Principal of Brandon Collegiate Institute.

Macgregor .....Representative: Rev. J. R. Johns.

Winnipeg .....Representative:
Secretary: A. H. Egerton, Esq., Mus. Bac., 61 Furby St.

Gladstone .....Representative: Dr. E. H. Whelpley.
Secretary: David B. McHardy, Esq.

Pembroke .....Secretary:

Renfrew .....Secretary: Percival Kirby, Esq., Mus. Bac.

Peterboro .....Representative: Rev. Blagrave, D.D.
Secretary: F. G. Mann, Esq., 186 Dublin St.

Ottawa .....Representative: Dr. Duncan Campbell Scott, Government Offices, Booth Building.
Secretary: Dr. Herbert Sanders, 179 Buena Vista Road.

Cornwall .....Representative: Rev. J. R. Baldwin.

Sherbrooke .....Representative: H. G. Hatcher, Esq., M.A., 41 Quebec St.
Secretary: A. Roy Kendall, Esq., L.R.A.M., A.A.C.O., 156 London St.

Maxville .....Secretary: Miss Netta McEwen.

Three Rivers.....Representative: Rev. J. R. MacLeod, B.A.

Granby .....Representative: Rev. I. W. Pierce.
Secretary: W. Smithson, Esq., Mus. Bac.

Quebec .....Representative: Dr. G. W. Parmalee, Parliament Buildings.
Secretary: H. Gordon Perry, Esq., 19 Fraser Street.

St. John.....Representative: Rev. J. H. A. Holmes, St. Jude's Rectory.
Secretary: J. S. Ford, Esq., 27 Dorchester St.

Rothesay .....Representative: Rev. A. W. Daniels, The Rectory.
Secretary: Miss A. Davidson, L. Mus.

Fredericton .....Representative: Dr. H. B. Bridges, Principal of the Normal School.

Moncton .....Representative: Rev. J. A. Ramsay, The Manse, Alma St.
Secretary: Geo. Ross, Esq., Mus. Bac.

Halifax .....Representative: Rev. W. J. Patton.
Secretary: Miss Ada Hoyt, 3 College Street.

Truro .....Representative: David Soloan, Esq., Ph.D.
Secretary: H. A. Wellard, Esq.

New Glasgow.....Representative: Rev. J. L. McLeod
Secretary: R. G. Humphreys, Esq.

Stellarton .....Secretary: L. N. Miller, Esq., L.Mus.

Sydney .....Representative: Rev. J. Pringle, D.D.
Secretary: J. B. Neild, Esq.

Glace Bay.....Representative: Rev. A. MacLeod, Presbyterian Church Manse.
Secretary: Miss B. McGregor.

Amherst .....Representative: Rev. F. L. Orchard, 1 Rupert Street.
Secretary: Mrs. George R. Shiers, 35 Roby St.

Campbellton .....Representative: Judge F. F. Matheson.

## FEES FOR LOCAL EXAMINATIONS.

### 1.—Theory of Music.

| | Fee |
|---|---|
| Highest Grade | $9.00 |
| Senior Grade | 5.50 |
| Intermediate Grade | 4.00 |
| Junior Grade | 3.00 |
| Elementary Grade | 2.00 |

### 2.—Practical Subjects.

| | |
|---|---|
| Highest Grade, including fee for Theory work | $12.00 |
| Senior Grade, including fee for Theory work | 10.00 |
| Intermediate Grade, including fee for Theory work | 7.50 |
| Junior Grade, including fee for Theory work | 6.00 |
| Elementary Grade | 3.50 |
| Lowest Grade | 2.50 |

### 3.—Supplementary Theoretical Examinations.

| | |
|---|---|
| Fee for the three highest grades | $2.00 |
| Fee for the two lowest grades | 1.50 |

### 4.—General School Examination.

Fee $20.00 for first hour and $10.00 for each succeeding hour. (One examiner.)

### 5.—Class Singing Examination.

Fee, $10.00 per class. (One examiner.)

## LOCAL CENTRE EXAMINATIONS IN THEORETICAL MUSIC.

These examinations are divided into five grades, and Certificates of two kinds in each grade will be awarded to successful candidates: (a) Distinction: (b) Pass. The maximum number of marks obtainable is 150, of which 100 are required for a Pass and 130 for Distinction.

HIGHEST GRADE.—Harmony up to chords of the ninth, including the use of suspensions and passing notes, counterpoint in two parts;

analysis together with elementary knowledge of form, questions being based upon the candidate's previous study of the pieces given in this year's Highest Grade, List A, Pianoforte Book (a copy of which will be provided for the candidates in the examination room), and the outlines of musical history. The examinations in this grade only will consist of two papers. One paper will deal with Harmony and History of Music and the other with Counterpoint and Analysis and Form.

SENIOR GRADE.—More advanced questions on the work specified for the Intermediate Grade. A knowledge of musical ornaments or graces and of syncopated time, analysis of given chords or passages and the harmonization of an easy melody and of a figured or unfigured bass.

INTERMEDIATE GRADE.—A knowledge of the C clefs, all scales (including the chromatic) and (in both original and inverted positions) triads, common chords, chords of the seventh with resolution of the same. In addition to the above, the harmonization of short phrases with either melody or bass will be given.

JUNIOR GRADE.—Transposition from treble to bass and vice versa, the more extreme key signatures and scales, completing bars with notes or rests, marks of expression, a knowledge of triads, technical names of notes for scale degrees, intervals and their inversions.

ELEMENTARY GRADE.—The following are the requirements:—A knowledge of staves, G and F clefs, notes, dots, rests, leger lines, time-signatures, key-signatures (major and minor), writing scales, the more common marks of expression, easy intervals.

N.B.—Specimens of examination papers used for the Highest Senior and Intermediate Grades during the last fourteen years can be obtained from the Secretary of McGill University Conservatorium at 10 cents per copy of each grade. Owing to the great demand in the past for Junior and Elementary papers, the supply of these is limited to the last four years.

## LOCAL CENTRE EXAMINATIONS FOR CANDIDATES IN PRACTICAL SUBJECTS.

Details of the requirements for these examinations are given in the Announcement of the Conservatorium of Music.

## GENERAL SCHOOL EXAMINATION.

On application to the General Secretary, McGill University Conservatorium of Music, Montreal, a general school examination can be arranged for any time during the year. The expense must, of course, vary according to the length of the railway journey the Examiner has to take. Due notice should, therefore, be given to the Secretary, so that he may be able to arrange the visit of the Examiner at a time when he is somewhere in the district, when the fee will be $20.00 for the first hour, and $10.00 for each succeeding hour. Not less than one hour can be arranged for. It is understood that no individual reports will be sent in on the work submitted, but only a general report made on each branch of music. (Class singing, referred to hereafter, may be taken as one branch of this examination.)

## CLASS SINGING EXAMINATION.

This examination is not necessarily confined to an examination at a school. Any teacher may enter a class for examination. A short general report will be rendered to the person who enters the class for examination, and the details of the report will be given on the following lines:—

Accuracy as to Notes, Rests, etc.
Maintenance of Pitch.
Balance of Parts and Grouping of Voices.
Articulation and Pronunciation.
Quality of Tone.
Expression and Conception of the works performed.
Sight Singing.
Performance of Vocal Exercises.

### Requirements.

1. The class must sing the vocal exercises prescribed, each group of the voices singing them separately in the keys best suited to the voices.*

2. At least two short compositions of different character and not in unison, must have been previously prepared.

3. Sight Singing from the staff notation.
Three short tests of varying difficulty will be given.

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*(These exercises can be obtained on separate sheets from the Secretary, McGill University Conservatorium of Music, price 25c. per dozen, post free, on receipt of remittance.)

# FACULTY OF GRADUATE STUDIES AND RESEARCH.

## GENERAL STATEMENT.

The Faculty of Graduate Studies and Research directs and controls all the courses leading to the higher degrees and recommends candidates for these degrees.

The members of the Faculty are the heads of departments and certain others on the staff of the University who offer and give *bona fide* courses of instruction of a graduate character and who superintend research work for the higher degrees. The members are appointed by the Board of Governors on the recommendation of the Principal. Other members of the staff, not members of the Faculty, who give graduate work of an approved character, have the rank of Associates of the Faculty.

The functions of the Faculty are *inter alia*:—

(1) To approve of the courses submitted by the heads of departments giving graduate instruction.

(2) To determine the conditions under which students may become candidates for higher degrees.

(3) To conduct examinations for such degrees.

The routine executive work of the Faculty, such as the admission and registration of students, the determination of the courses which they must take, the approval of the students' fulfilment of the requirements and the arrangements for the examinations are in charge of an Executive Committee appointed by the Faculty, which at stated intervals reports its proceedings to the Faculty as a whole.

## ADMISSION.

Advanced courses of instruction are offered to students who are graduates of any university of recognized standing. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

## REGISTRATION.

Application for registration as a graduate student should be made to the Dean of the Faculty of Graduate Studies and Research. The application should be made on a special printed form which may be obtained upon application at the Dean's Office. This, when filled out, will give the necessary information with reference to the degrees held by the candidate, the courses of undergraduate study which he has followed, and the courses of graduate study which he desires to pursue. All applications for courses of graduate study must be filed with the Dean of this Faculty before October 10th of each year. Candidates whose course extends over more than one year must register at the commencement of each year of their course. As soon as the candidate's course has been approved by the Faculty, he must register without delay at the office of the University Registrar. He will not be given credit for attendance until he does so.

## DEGREES.

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Laws, Master of Science, Master of Science in Agriculture, Doctor of Philosophy, Doctor of Literature, Doctor of Science, Doctor of Music.

## COURSES AT MACDONALD COLLEGE.

Postgraduate students who are taking the major part of their work at Macdonald College, may go into residence there and can take, when required, other postgraduate courses given at the University.

## WOMEN STUDENTS.

Women Students registering in this Faculty are invited to call at the Royal Victoria College for information concerning the following:—

1. The Alumnae Society of McGill University, for membership in which they are eligible.

2. The Monteregian Club, a Residential Club for women engaged in educational work, for membership in which they are eligible.

They can also obtain from the Secretary of the Royal Victoria College the addresses of boarding houses in Montreal, and they may, if they wish, make arrangements to obtain luncheon in the College.

## REGULATIONS FOR THE DEGREE OF MASTER OF ARTS (M.A.).

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following departments of study which rank as "Subjects":—

Greek Language and Literature.
Latin Language and Literature.
Romance Languages and Literature.
Germanic Language and Literature.
English Language and Literature.
Oriental Languages.
Theological Studies (see paragraph 8).
Philosophy.
Psychology.
History.
Economics and Political Science.
Mathematics.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.A. or B.Sc. (in Arts) from McGill University, or its equivalent.

(2) Candidates must take at least one year of resident graduate study at McGill University.

(3) One or two subjects may be taken.

(4) When two subjects are taken one of them shall be designated as the major subject and special attention shall be paid to it. It must be a subject which the candidate has already studied in his undergraduate course, and the work required in it will represent an attainment in knowledge far in advance of that required for the B.A. degree. The minor subject, if taken, must be a cognate subject and be approved by the head of the major department. Not more than one-third of the candidate's time for the year shall be devoted to the minor. The course of study selected by the student must receive the approval in writing of the heads of the departments concerned and also of the Faculty of Graduate Studies and Research. The candidate shall pass an examination in each of the subjects in his course.

(5) The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the head of the department concerned and to the Faculty of Graduate Studies and Research for their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be in good literary style.

(6) The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 30th, if the candidate wishes to present himself for the degree at the convocation in May.

(7) The first year's course of study for the Ph.D. degree may cover the requirements of the M.A. course; but if such a course of study be followed, a thesis must be submitted and approved before the degree of

M.A. is conferred. If, however, the candidate continues his course of study and takes the degree of Ph.D., the degree of M.A. will be conferred with the degree of Ph.D., and in this case no special thesis will be required for the former.

(8) *Theological Studies.* A selection from the courses set forth under the head of Theological Studies may be taken as fulfilling the requirements of a minor subject for the degree of Master of Arts.

## REGULATIONS FOR THE DEGREE OF MASTER OF LAWS (LL.M.).

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Laws is provided in the several departments of Law.

The requirements for this degree are as follows:—

(1) Candidates must hold the degree of B.C.L. or LL.B. from McGill University, or its equivalent, or be graduates of an approved law school.

(2) They must pursue one year of resident graduate study at McGill University.

(3) They shall also present a thesis on some subject previously approved by the head of the department concerned and the Faculty of Graduate Studies and Research. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 30th, if the candidate wishes to present himself for the degree at the convocation in May.

## REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE (M.Sc.).

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following departments of study which rank as "Subjects":—

Mathematics.
Physics.
Engineering Physics.
Chemistry.
Biochemistry.
Botany.
Plant Pathology.
Geology and Mineralogy.
Geodesy.
Thermodynamics and Theory of Heat Engines.
Theory of Elasticity, Strength of Materials and Theory of Structures.

Zoology.
Entomology.
Anatomy.
Pathology.
Bacteriology.
Physiology.
Pharmacology.
Hydrodynamics and Hydraulics.
Electrical Engineering.
Theory of Machines and Machine Design.
Metallurgy.
Mining.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.A. or B.Sc. or B.S.A. from McGill University, or its equivalent.

(2) Candidates must take at least one year of resident graduate study at McGill University.

(3) The course of study followed by the candidate shall be of an advanced character, being the equivalent of that required for the degree of M.A., and shall lie in the domain of pure or applied science. It may be selected from any one or (at the discretion of the head of the department in which the major subject is) two subjects included in the list given above. This course of study, which must be of a comprehensive character, must have been previously submitted to the head of the department and to the Faculty of Graduate Studies and Research and have received their approval in writing.

(4) The candidate shall also present a thesis on some subject connected with his course of study. The title of the thesis must have been previously submitted to the head of the department and to the Faculty of Graduate Studies and Research and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

(5) The first year's course of study for the Ph.D. degree may cover the requirements of the M.Sc. course; but if such a course of study be followed a thesis must be submitted and approved before the degree of M.Sc. is conferred. If, however, the candidate continues his course of study and takes the degree of Ph.D., the degree of M.Sc. will be conferred with the degree of Ph.D., and in this case no special thesis will be required for the former.

(6) The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 30th, if the candidate wishes to present himself for the degree at the Convocation in May, except in the case of theses involving experimental work, when the time will be extended to May 15th. No thesis received after these dates will be accepted.

## REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE (M.S.A.).

Agronomy must be taken as the major subject for this degree.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.S.A. from McGill University, or its equivalent.

(2) Candidates must take one year of resident graduate study at Macdonald College, Faculty of Agriculture, McGill University.

(3) One or two subjects may be taken.

(4) When two subjects are taken, one of them shall be designated as the major subject and special attention shall be paid to it. It must be a subject which the candidate has already studied in his undergraduate course, and the work required in it will represent an attainment in knowledge far in advance of that required for the B.S.A. degree. Not more than one-third of the candidate's time for the year shall be devoted to the minor subject. The candidate shall pass an examination in each of the subjects of his course.

(5) The course of study selected by the student must receive the approval, in writing, of the heads of the departments concerned and also of the Faculty of Graduate Studies and Research.

(6) The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Faculty of Graduate Studies and Research and the head of the department concerned, and have received their approval in writing. The thesis must be a contribution to knowledge and must also be written in good literary style.

The thesis must be in the hands of the Dean of Graduate Studies and Research on or before April 30th, if the candidate wishes to present himself for the degree at the Convocation in May.

(7) Candidates for the M.S.A. degree who select agronomy may register in September or January. In the latter case they will be expected to remain in residence until the end of September. This gives an opportunity for practical field, laboratory and thesis work during the crop-growing season.

## REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.).

(1) Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. or B.Sc. or M.D. from McGill University, or its equivalent.

(2) They must follow a course of at least three years' resident graduate study. Of these at least one must be at McGill University. The other two may be spent at institutions approved by the Faculty of Graduate Studies.

(3) They must select one major subject and one or two minor subjects. The minor subjects or subject must be cognate to the major subject and must be approved by the head of the department in which the major is. Not more than one-quarter of their time shall be devoted to the minor or minors.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Bacteriology.
Botany.
Biochemistry.
Chemistry.
Geology and Mineralogy.
Pharmacology.
Physics.
Physiology.
Oriental Languages.

In special cases heads of departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should make direct application to the Faculty of Graduate Studies and Research, asking whether courses in such subjects can be provided.

(4) The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the heads of the several departments concerned and to the Faculty of Graduate Studies and Research and have received their written approval.

(5) Before the termination of the second year every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of both French and German.

(6) The examinations shall be both written and oral. On the major subject, they shall cover not merely the formal courses of instruction which have been taken, but the candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. A similar general, though less detailed, knowledge shall be required in the case of the minor subjects.

(7) The candidate must also prepare a thesis which shall display original scholarship and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the head

of the department in which the major subject lies and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination. If the candidate wishes to present himself for the degree at the convocation in May, this thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 30th, except in the case of theses involving experimental work, when the time will be extended to May 15th. No thesis received after these dates will be accepted. This thesis must have been examined and approved before the candidate can proceed to his examination.

One week before the Convocation at which the degree is to be conferred, a typewritten copy of the thesis, accompanied by a statement from the head of the department that the copy in the form submitted has been accepted, shall be filed in the office of the Dean of the Faculty of Graduate Studies and Research. This copy must be left there till one hundred printed copies have been deposited in the Library.

The candidate shall at the same time deliver to the Dean of the Faculty of Graduate Studies and Research a legal contract that he will furnish the Library with one hundred printed copies by a specified date. The publication furnished by him must be a separate print, containing only the thesis. Its size, cover, and title page must conform to the requirements given on page 432.

Upon recommendation of a department and the approval of the Faculty of Graduate Studies and Research, a briefer form of the thesis than that approved for the degree may be accepted in fulfilment of the publication requirement. This shall contain an account of the method followed in the investigation, an abstract of the evidence adduced and a full summary of the results obtained. Those who adopt this plan must, in addition to the hundred printed copies of the short form of the thesis, deposit in the Library two typewritten copies of the complete thesis.

## REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.).

Any person who has graduated as B.C.L. or as LL.M. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. For regulations concerning thesis, etc., see page 432.

## REGULATIONS FOR THE DEGREE OF DOCTOR OF LITERATURE (D. Litt.).

Bachelors of Arts of McGill University who are graduates of at least seven years standing, and who have distinguished themselves by special research and learning in the domain of arts and literature, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Literature. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree. For regulations concerning thesis, etc., see page 432.

## REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE (D.Sc.).

Bachelors of Arts, Bachelors of Science or Doctors of Medicine of McGill University, who are graduates in one or other of these Faculties of at least seven years standing, and who have distinguished themselves by special research and learning in the domain of science, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Science. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree. For regulations concerning thesis, etc., see page 432.

## REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC (Mus. Doc.).

Bachelors of Music of McGill University, after the lapse of a period of seven years from the time of taking that degree, may proceed to the degree of Doctor of Music, the requirement for which is a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the usual concert overture form, and must contain eight-part writing and fugal treatment. It must be scored for a full orchestra. If preferred, a candidate may present a composition scored for orchestra in the form of a symphony, symphonic poem or tone poem, occupying not less than forty minutes in performance. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores or certain prescribed works. This degree is open only to graduates of the Faculty of Music of McGill University.

## REGULATIONS CONCERNING THESES.

In the case of students who wish to graduate at the Spring Convocation, all theses for the degree of Master of Arts, and all those for the degrees of Master of Science, Master of Laws and Doctor of Philosophy—not involving experimental work—must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 30th.

All theses for the degree of Master of Science or of Doctor of Philosophy which do involve experimental work, as well as all theses for the degree of Master of Science in Agriculture, must be in the hands of the Dean not later than May 15th.

In the case of students who wish to graduate at the Fall Convocation, their thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 15th.

Owing to the fact that all theses submitted by successful candidates for higher degrees will be bound and placed in the Library, candidates for such degrees are advised that the Faculty of Graduate Studies and Research will henceforth require these to be prepared in a uniform manner and in accordance with the following specifications:—

(1) The paper is to be of uniform size, 8½ x 11 inches, and of substantial quality.

(2) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(3) All theses must be type-written and **in duplicate.**

(4) No binding is to be employed, but the loose sheets must be placed in a manilla envelope in the order of their pagination.

In the case of candidates presenting themselves for the degree of Doctor of Science, Doctor of Literature or Doctor of Civil Law, two copies of the book or books—or for the degree of Doctor of Civil Law, should a thesis be substituted, two type-written copies of the thesis—must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than *February 15th* of the year in which the candidate desires to take the degree.

# COURSES OF GRADUATE STUDY.

## DEPARTMENT OF CLASSICS.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

WILLIAM D. WOODHEAD:—*Hiram Mills Professor of Classics.*

ASSOCIATE OF THE FACULTY.

SAMUEL B. SLACK:—*Professor of Greek.*

### COURSES FOR THE DEGREE OF MASTER OF ARTS.

**Greek 1:** Pindar.
2 hrs. Colloquia.....Professor Woodhead.

**Greek 2:** Demosthenes, as Statesman and Orator.
2 hrs. Colloquia.....Professor Slack.

**Greek 3:** Plato, Laws.
2 hrs. Colloquia.....Professor Slack.

**Latin 1:** Historical Latin Grammar.
2 hrs. Colloquia.....Assistant Professor Carruthers.

**Latin 2:** Virgil, Aeneid.
2 hrs. Colloquia.....Assistant Professor Thompson.

**Latin 3:** The Life of Augustus Caesar, Studied from the Original Sources.
2 hrs. Colloquia.....Professor Woodhead

(Other courses in Greek or Latin may be obtained by arrangement.)

## DEPARTMENT OF ORIENTAL LANGUAGES AND LITERATURE.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

C. A. BRODIE BROCKWELL:—*Professor of Hebrew and Semitic Languages, Law and History.*

ASSOCIATES OF THE FACULTY.

ALEXANDER R. GORDON:—*Professor of Hebrew.*

GEORGE ABBOTT-SMITH:—*Assistant Professor of Jewish Hellenistic Literature.*

COURSES FOR THE DEGREE OF MASTER OF ARTS.

1. **Special Texts:** connected with Hebrew, or Aramaic, or Syriac, or Phoenician and Punic, or Arabic, or Ethiopic, according to the nature of the thesis.
3 hrs....Professor Gordon, Assistant Professor Abbott-Smith, or Mr. Graham.

2. **Synopsis of Semitic History.**
1 hr.....Professor Gordon.

*3. **Semitic Comparative Philology.**
1 hr.....Professor Brockwell.

*4. **Semitic Epigraphy:** including a knowledge of the history of the Semitic alphabet.
1 hr.....Professor Brockwell.

*5. **Hebrew and Semitic Social Customs, Institutions and Codes.**
3 hrs.....Professor Brockwell.

6. **The Arithmetical Processes implied in the Grammar and Syntax of the Hebrew and Semitic Numerals.**
1 hr.....Professor Brockwell.
Or the following can be substituted for any two of the courses 2, 3, 4, 6.

7. **Hellenistic Grammar, Syntax and Lexicography.**
1 hr.....Assistant Professor Abbott-Smith.

8. **The Critical Use and Values of Hellenistic Documents.**
1 hr.....Assistant Professor Abbott-Smith.

N.B.—Each of these eight courses consists of lectures.

COURSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

This will be arranged on application to the Faculty.

## DEPARTMENT OF THEOLOGICAL STUDIES.

ASSOCIATES OF THE FACULTY OF GRADUATE STUDIES.

GEORGE ABBOTT-SMITH:—*Assistant Professor of Jewish and Hellenistic Literature, McGill University.*

THOMAS EAKIN:—*Professor of Practical Theology, Co-operating Theological Colleges.*

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*Courses marked with an asterisk are undergraduate honour courses in the Faculty of Arts which may also be followed by graduate students who have not already taken them.

D. J. FRASER:—*Professor of New Testament Literature and Exegesis, Co-operating Theological Colleges.*

WILLIAM C. GIFFORD:—*Professor of Church History, Co-operating Theological Colleges.*

ALEX. R. GORDON:—*Professor of Hebrew, McGill University.*

WILLIAM C. GRAHAM:—*Old Testament Language and Literature, Co-operating Theological Colleges.*

SAMUEL P. ROSE:—*Professor of English Bible and Hermeneutics, Co-operating Theological Colleges.*

W. H. WARRINER:—*Professor of New Testament Literature and Exegesis, Co-operating Theological Colleges.*

R. E. WELSH:—*Professor of Apologetics and Church History, Co-operating Theological Colleges.*

A selection from the following courses may be taken as fulfilling the requirements of a Minor Subject for the degree of Master of Arts.

OLD TESTAMENT.

1. **Introduction. Canon, Text and Introduction to the Historical Books.** Exegesis — Selections from the Historical Books or Prophetical Books.

   3 hrs. a week throughout the year.

   Professors Gordon and Eakin.

2. **Biblical Social Life, with special reference to the Hellenistic Period.**

   2 hrs. a week throughout the year.....Professor Graham.

3. **The English Bible.** The Historical Books and the Prophets of the Eighth Century, B.C.

   2 hrs. a week throughout the year.....Professor Rose.

NEW TESTAMENT.

4. **Introduction.** Course in three parts.

   (1) History of New Testament times.

   (2) Canon and Text.

   (3) The Language of the New Testament.

   3 hrs. a week throughout the year....Professor Abbott-Smith.

5. **Introduction to the Acts and Pauline Epistles; and Exegesis (Greek) of the Epistles to the Galatians and Ephesians.**

   3 hrs. a week throughout the year.....Professor Warriner.

6. **Introduction to the Catholic Epistles; and Exegesis (Greek) of the Epistles of St. James, First St. Peter, and First St. John.**
3 hrs. a week throughout the year.....Principal Fraser.

7. **The Rise and Progress of Protestant Christianity in Europe until the close of the 16th Century.**
Two lectures a week with weekly colloquium.....Prof. Gifford

8. **History and Comparative Study of Religions — chiefly Buddhist, Hindu, Zoroastrian and Mohammedan (Islam).**
2 hrs. a week for two terms.....Professor Welsh.

## DEPARTMENT OF ENGLISH.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

CYRUS MACMILLAN:—*Professor of English.*

ASSOCIATES OF THE FACULTY.

GEORGE W. LATHAM:—*Associate Professor of English.*
HAROLD G. FILES:—*Assistant Professor of English.*

### COURSES FOR THE DEGREE OF MASTER OF ARTS.

1. **Anglo-Saxon.**
Beowulf.
2 hrs.....Associate Professor Latham.

2. **The English and Scottish Popular Ballads,** with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe.
2 hrs.....Professor Macmillan.

3. **Chaucer.** Prerequisite:—15
2 hrs.....Associate Professor Latham.

4. **The Drama in England from 1660 to 1920.**
2 hrs.....Professor Macmillan.

5. **Methods of Literary Criticism.**
2 hrs..... Assistant Professor Files.

*6. **Spenser and Milton.**
3 hrs. in first term; Mon., Wed., Fri., at 9.
Associate Professor Latham.

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*Courses marked with an asterisk are undergraduate honour courses in the Faculty of Arts which may also be followed by graduate students who have not already taken them.

*7. **Shakespeare (Six Plays).**
3 hrs.; Mon., Wed., Fri., at 10.....Professor Macmillan.

*8. (a) The Romantic Poets; (b) Tennyson and Browning.
3 hrs.; Mon., Wed., Fri., at 11.
Professor Macmillan and an Assistant.

*9. **English Novelists, from DeFoe to George Eliot.**
3 hrs.; Tu., Th., Sat., at 10.....Assistant Professor Files.

*10. **The English Drama, 1590-1642.**
3 hrs.; Mon., Wed., Fri., at 11.
Professor Macmillan and Assistant Professor Files.

*11. **Anglo-Saxon.**
3 hrs., 1st term; Mon., Wed., Fri., at 2.
Associate Professor Latham.
**Text-book:**—Sweet, Anglo-Saxon Reader (all the prose).

*12. **Anglo-Saxon Poetry and Introduction to English Philology.**
3 hrs., 2nd term; Mon., Wed., Fri., at 2.
Associate Professor Latham.
**Text-book:**—Sweet, Anglo-Saxon Reader (all the verse).
Prerequisite 11.

*13. **Chaucer.**
3 hrs. in second term; Mon., Wed., Fri., at 9.
Associate Professor Latham.

*14. **Comparative Literature.**
(The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries).
3 hrs.; 2nd term.....Assistant Professor Files.

*15. **Comparative Literature.**
(The Literary Relations of France and England in the 16th and 17th Centuries).
3 hrs.; 1st term; Mon., Wed., Fri., at 12.
Assistant Professor Files.

Candidates for the degree of M.A., taking English as their only subject, must select four courses, of which two must be from Nos. 1 to 5 (inclusive), while No. 11, or its equivalent, is compulsory.

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*Courses marked with an asterisk are undergraduate honour courses in the Faculty of Arts which may also be followed by graduate students who have not already taken them.

## DEPARTMENT OF ROMANCE LANGUAGES.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

RÉNÉ DU ROURE:—*Professor of French.*

ASSOCIATE OF THE FACULTY.

LUCIE TOUREN FURNESS:—*Assistant Professor of French.*

### COURSES FOR THE DEGREE OF MASTER OF ARTS.

1. **Comparative Literature** (Department of English, Course 15).
   3 hrs.; 1st term.....Assistant Professor Files.
2. **Versification:** histoire et technique.
   1 hr.....Professor du Roure.
3. **Histoire de la langue française.**
   1 hr.....Professor du Roure.
4. **Victor Hugo.**
   2 hrs.....Assistant Professor Furness
5. **Exercises pratiques** (colloquia).
   1 hr.....

*6. **Histoire du roman en France.**
   3 hrs. (Given in 1925-26).....Associate Professor du Roure.

*7. **Histoire du Théâtre en France.**
   2 hrs. (Given in 1923-24).....Associate Professor du Roure.

*8. **Histoire de la poésie lyrique en France.**
   3 hrs. (Given in 1924-25).....Associate Professor du Roure.

Candidates for the Master's degree in French only will take courses 1 to 5 inclusive, and also one of 6, 7, 8.

Certain courses given in the Summer School in French if taken by graduate students, may be accepted as part of the requirements for the degree of Master of Arts.

Those taking French as a major will omit 1 and either 2 or 3.

Those taking French as a minor will take 4 and one of the one-hour courses.

Those who have not taken French Philology in their undergraduate course must take it as a part of their M.A. course, except when French is taken as a minor.

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*Courses marked with an asterisk are undergraduate honour courses in the Faculty of Arts which may also be followed by graduate students who have not already taken them.

## DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURES.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

H. WALTER:—*Professor of Germanic Languages and Literatures.*

COURSES FOR THE DEGREE OF MASTER OF ARTS.

1. **Comparative Literature** (Department of English, Course 15).
   3 hrs.; 1st term.....Assistant Professor Files.
2. **Goethe.**
   1 hr.....Professor Walter.
3. **Geschichte des deutschen Romans.**
   1 hr.....Professor Walter.
4. **Grillparzers Dramen.**
   1 hr.....Professor Walter.
5. **Gothic and Introduction to Germanic Philology.**
   1 hr.....Professor Latham.
6. **Fraktische Ubungen.**
   1 hr.....Professor Walter.

Cardidates who have not taken German Philology and Mediæval Texts in their undergraduate course must take it as part of their M.A. course, except when German is taken as a minor.

## DEPARTMENT OF HISTORY.

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

BASIL WILLIAMS:—*Professor of History.*
CHARLES EDMUND FRYER:—*Professor of History.*

ASSOCIATES OF THE FACULTY.

W. T. WAUGH:—*Associate Professor of History.*

COURSES FOR THE DEGREE OF MASTER OF ARTS.

*1. **European Expansion and Colonization.**
   Lectures, 3 hrs.....Professor Williams.
2. **Reformation Period.**
   Seminar, 1 hr.....Professor Waugh.
3. **Historical Methods and Criticism.**
   Seminar, 1 hr.....Professors Williams, Fryer and Waugh.

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*These courses are also open to undergraduate students reading for honours in History in the Faculty of Arts.

*4. **Age of Chaucer and Wycliffe.**
Seminar, 1 hr.....Professor Waugh

*5. **The Russo-Turkish War and the Treaty of Berlin.**
Seminar, 1 hr.....Professor Fryer.

*6. **The Anglo-French Entente of 1904.**
Seminar, 1 hr.....Professor Fryer.

*7. **Federal Constitution of the British Empire.**
Seminar, 1 hr.....Professor Williams.

8. **Canada under the Union, 1840-67.**
Seminar, 1 hr.....Professor Fryer.

## DEPARTMENT OF PHILOSOPHY.

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

WILLIAM CALDWELL:—*Professor of Moral Philosophy.*

IRA A. MACKAY:—*Professor of Logic and Metaphysics.*

### COURSES FOR THE DEGREE OF MASTER OF ARTS.

*1. **The Critical Philosophy of Kant.**
Lectures, Readings and Papers.
3 hours.....Professor Caldwell or Professor Mackay.

2. **Ethical Seminary.**
Recent and Contemporary Ethical Theories.
3 hours.....Professor Caldwell.

3. **Philosophical Seminary.**
3 hours.....Professor Mackay.

## DEPARTMENT OF PSYCHOLOGY.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

WILLIAM D. TAIT:—*Professor of Psychology.*

### GRADUATE COURSES.

1. **Psychological Laboratory.**
Experimental Investigations in Human Psychology.
6 hrs.....Professor Tait and Assistant.

2. **Seminary in Psychology.**
Subject: Educational Psychology.
3 hrs.....Professor Tait

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*This is also an honour course in the Faculty of Arts.

*3. **Advanced Psychology.**
3 hrs.....Professor Tait.
(This is number 5 in the Honour Course in the Faculty of Arts).

## DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

STEPHEN LEACOCK:—*Professor of Political Economy.*

ASSOCIATE OF THE FACULTY.

JOSEPH CLARENCE HEMMEON:—*Associate Professor of Economics and Political Science.*

### COURSES FOR THE DEGREE OF MASTER OF ARTS.

1. **Economic Factors in the Evolution of Society till 1800.** (Course No. 14 in Arts.)
3 hours.....Assistant Professor Farthing.
2. **Economic Factors in the Evolution of Society after 1800.** (Course No. 15 in Arts.)
3 hours.....Associate Professor Day.
3. **Provincial and Municipal Finance in Canada.**
3 hours in 2nd term.....Associate Professor Hemmeon.
4. **Development of Public Policy in Canada, 1867-1914.** Parliamentary Debates and Contemporary Documents.
3 hours in 1st term.....Professor Leacock.
5. **Graduate Seminar.**
(Conferences with individual students). 1 hour.

The work in the Department is carried on with special reference to the study of the economic and political problems of Canada.

No students are admitted except those who have taken an honour B.A. degree in the department or who have completed elsewhere a course accepted by the department as equivalnt to that standing.

## LAW.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

HERBERT ARTHUR SMITH:—*Professor of Jurisprudence and Common Law.*

IRA ALLAN MACKAY:—*Professor of Constitutional Law.*

### COURSES FOR THE DEGREE OF MASTER OF LAWS.

Individual students desiring to take up special branches of advanced legal study leading to the degree of LL.M. should consult the Dean of the Faculty of Law, who can arrange special courses in suitable cases, subject to the approval of the Faculty of Graduate Studies and Research.

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* These are also honour courses in the Faculty of Arts.

## DEPARTMENT OF MATHEMATICS.

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

DANIEL A. MURRAY:—*Professor of Applied Mathematics.*

CHARLES T. SULLIVAN:—*Professor of Mathematics.*

ASSOCIATE OF THE FACULTY.

ALBERT H. S. GILLSON:—*Associate Professor of Mathematics.*

### COURSES FOR THE DEGREE OF MASTER OF ARTS.

*1. **General Analysis.**
3 hrs.....Professor Sullivan.

*2. **Introduction to the Theory of Functions of a Complex Variable.**
Associate Professor Gillson.

*3. **Introduction to the Theory of Higher Plane Curves.**
1 hr.....Associate Professor Gillson.

4. **Selected Topics in the Theory of Functions.**
3 hrs.....Professor ————
The topics to be selected will be adapted to the mathematical needs and training of students wishing to take the course. Attention will be paid to Riemann's methods and to such collateral subjects as finite groups, the theory of invariants, and birational transformations.

5. **The Differential Equations of Mathematical Physics.**
2 hrs.....Associate Professor Gillson.
One hour a week of this course will be devoted to the theory of the potential. Particular attention will be paid in the remaining part of the course to Laplace's equation and to the wave-equation, with applications to problems in elasticity, electromagnetism and hydrodynamics.

6. **Differential Geometry.**
2 hrs.....Professor Sullivan.

7. **Projective Geometry.**
2 hrs.....Assistant Professor Matthews.

8. **Differential Equations and Advanced Calculus.**
2 hrs.....Professor Murray.

9. **Theory of Generalized Relativity.**
2 hrs. 1st term and 2nd term.....Associate Professor Gillson.

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*Open also to undergraduates in the honour courses of the Third and Fourth Years.

10. **Modern Higher Algebra.**
(Properties of polynomials, determinants, matrices, invariants).
3 hrs.....Dr. Williams.

11. **Theory of Numbers.**
3 hrs.....Dr. Williams.

12. **Hypercomplex Numbers.**
(Algebraic properties of quaternions and other hypercomplex numbers).
3 hrs.....Dr. Williams

Course 6 is intended specially for graduates in the Faculty of Applied Science who are proceeding to the M.Sc. degree in courses in Applied Science; *e.g.* in Electrical Engineering, or in Civil Engineering. It will be a minor among the courses taken by candidates for this M.Sc. degree, and is based necessarily on the mathematics taken in preparation for the B.Sc. degree in Applied Science. It is, however, open to students other than those in Applied Science.

## DEPARTMENT OF PHYSICS.

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

A. STEWART EVE:—*Macdonald Professor of Physics and Director of the Physics Building.*

LOUIS V. KING:—*Macdonald Professor of Physics.*

ASSOCIATES OF THE FACULTY.

A. NORMAN SHAW:—*Associate Professor of Physics.*

### COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY.

*6a. **Electrical Measurements.**
2 hrs.; Wed., Fri., at 9; 2 hrs. lab.; Wed., 2-6.
Assistant Professor Bieler.
*Text-book:*—Law's Electrical Measurements (McGraw-Hill).

*6b. **Light.** (Replaced by 8b in alternate sessions.†)
1 hr.; Mon., at 9 (also lab.).....Assistant Professor Keys.
*Text-books:*—Edser's Light (Macmillan); Wood's Physical Optics (Macmillan).

*7a. **Electro-magnetic Theory.**
1 hr.; Th., at 11.....Assistant Professor Keys.
*Text-book:*—Sir J. Thomson's Elements of Electricity and Magnetism (C.U.P.).

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*These are also given as undergraduate courses.

†Courses 6b and 8b will be given in alternate sessions as follows:—6b in '24-'25, '26-'27, etc., and 8b in '25-'26,-'27-'28, etc.

*7b. **Mathematical Physics.**
2 hrs.; Tu., Sat., at 11.....Assistant Professor Foster.
*Text-book:*—Houston's Introduction to Mathematical Physics (Longmans).

*8a. **Molecular Physics.**
2 hrs.; Wed., Fri., at 9.....Associate Professor Shaw.
*Text-book:*—Crowther's Ions, Electrons and Ionizing Radiations (E. Arnold).

*8b. **Theory of Heat.** (Replaced by 6b in alternate session.†)
1 hr.; Mon., at 9 (also 3 hrs. lab.).....Professor Barnes.
*Text-book:*—Preston's Theory of Heat (Macmillan).

*9. **Radioactivity.**
2 hrs.; 2nd term (also 3 hrs. lab.)....Assistant Professor Bieler.
*Text-book:*—Rutherford's Radioactive Transformations (C.U.P.).

10. **Vector Analysis.**
2 hrs.; 1st term.....Professor Eve.
*Text-book:*—Coffin's Vector Analysis (Wiley).

11. **Advanced Statics, Dynamics, Hydrodynamics and Sound.**
2 hrs.....Professor King.
*Text-books:*—Lamb's Higher Mechanics (C.U.P.), Bassett's Hydro-dynamics and Sound (Deighton Bell).

12. **Kinetic Theory of Matter.**
2 hrs.....Associate Professor Shaw.
*Text-book:*—Jeans' Dynamical Theory of Gases (C.U.P.)

13. **(a) Quantum Theory.**
1 hr., 1st term.....Professor Eve.
*Text-book:*—Sommerfeld's Atomic Structure (Methuen).

**(b) Relativity.**
1 hr., 2nd term.....Associate Professor Gillson.

14. **Advanced Electricity and Magnetism.**
2 hrs.....Assistant Professor Keys.
*Text-book:*—Jeans' Electricity and Magnetism (C.U.P.).

15. **Laboratory Practice and Physical Manipulation.**
1 hr. (also 2 hrs. lab.), Assistant Professor D. Keys, Mr. H. T. Pye.

A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction of simple apparatus. This course is designed as an aid and introduction to original research.

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*These are also given as undergraduate courses.

†Courses 6b, and 8b will be given in alternate sessions as follows:—6b in '24-'25, '26-'27, etc., and 8b in '23-24, '25-'26, etc.

16. **Thermodynamics.**
1 hr.....Professor Barnes.
(Alternate sessions, 1924-25, 1926-27.)

17. **Electron Theory.**
1 hr.....Professor King.
*Text-books:*—Richardson's Electron, Theory of Matter (C.U.P.); Lorentz, Theory of Electrons (Teubner).

A selection of courses from 6a to 9 may be made in the case of Physics, being a minor subject. A general paper on elementary Physics is also given when Physics is a minor subject.

As a major course, M.Sc. or Ph.D., a suitable selection will be made from the above courses (6a to 17). 6a to 8 are usually covered, however, in the undergraduate Honour Course in Physics.

Graduate students will also take part in the Physical Society, the weekly Journal Club, and the weekly Colloquium.

## DEPARTMENTS OF CHEMISTRY.

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

R. F. RUTTAN:—*Macdonald Professor of Chemistry and Director of the Chemistry Department.*
J. F. SNELL, B.A., Ph.D.:—*Professor of Chemistry (Macdonald College).*

ASSOCIATES OF THE FACULTY.

F. M. G. JOHNSON:—*Professor of Inorganic Chemistry.*
OTTO MAASS:—*Professor of Physical Chemistry.*
G. S. WHITBY:—*Professor of Organic Chemistry.*

### COURSES FOR HIGHER DEGREES.

*1. **Advanced Organic.**
2 hrs. per week.....Dr. Whitby.

*2. **Advanced Inorganic.**
2 hrs. per week.....Dr. Johnson.

*3. **Advanced Physical.**
2 hrs. per week and 6 hrs. laboratory work.....Dr. Maass.

*4. **Colloid Chemistry.**
2 hrs. per week for second term.....Dr. Johnson.

*5. **Synthetical and Quantitative Organic Chemistry.**
Laboratory from 9 to 12 hrs. per week...Dr. Whitby and Staff.

*6. **Advanced Inorganic and Gas Analysis.**
9 to 12 hrs. per week.....Dr. Johnson and Staff.

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*Courses open to Honours students in Arts, B.A. and B.Sc., and as alternatives for students in Chemical Engineering.

7. **Groups of 4 or 5 Lectures on Special Fields of Chemistry.**
1 or 2 hrs. per week.....Senior Member of Staff.

8. **Colloquium.**
1 hr. per week.....Dr. Ruttan.

9. **Tutorial Inorganic and Physical.**
1 hr. per week.....Drs. Johnson and Maass.

10. **Tutorial, Organic Chemistry.**
1 hr. per week.....Drs. Ruttan and Whitby.

11. **Chemical or Physical Society.**
1 hr. per week

12. **Supervision of Special Reading, Assistance and Instruction in Research for Thesis.** Research in Organic Chemistry is directed by Drs. Ruttan, Whitby, MacLean and Hatcher; in Inorganic and Physical Chemistry by Drs. Johnson and Maass.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE.

1. Advanced courses in (a) Inorganic, (b) Organic, (c) Physical and (d) Colloidal Chemistry. (1 to 6.)

One or more of these courses are open to Honour students and Chemical Engineers. The subject matter of these should be covered on entrance to the Faculty, but few undergraduates take all these courses, therefore candidates in the Faculty of Graduate Studies and Research are allowed to carry two.

2. Colloquium, one per week. Each candidate gives one, and, if time permits, two papers on some recent advances in chemistry. Papers are suggested and criticized by some member of the senior staff. (8.)

3. Attendance at the weekly meetings of the Chemical and Physical Societies. (11.)

4. Special graduate lectures. (7.)

5. Special reading and regular conferences with some member of the senior staff to whom the candidate is assigned. Assistance and instruction is given regarding the technique and literature of the Master's thesis. (12.)

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

1. Many advanced courses to undergraduates and graduates (see 1 to 6 above) cover different fields of chemistry each year. If the subject matter of a course be new to a graduate student, he should take this course.

2. Colloquium, for each of the three years, as above. (11.)

3. Attendance at Chemical and Physical Societies (8); each candidate is expected to give one lecture during his course.

4. The graduate lectures (7) are not on the same subjects two years in succession. They are attended for three years.

5. Supervision of reading and regular conferences. (12.)

6. Tutorial classes. (9.)

7. Supervision and direction of research work by the member of the senior staff under whom the candidate is working. If the candidate is unable to suggest an acceptable piece of work, a special problem will be assigned to him.

**The following courses are given at Macdonald College:—**

COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

**Prerequisites:**—Courses in inorganic, organic and analytical chemistry; training in qualitative and quantitative analysis; courses in physics.

*1. **Chemistry of soils and fertilizers.** Two lectures a week during the fall term. Laboratory in analysis of soils and fertilizers. Hours for graduates variable. Supplementary reading.

*2. **Chemistry of Animal Nutrition.** Two lectures a week during the spring term. Supplementary reading. Laboratory work in analysis of feeding stuffs and in physiological chemistry. Hours for graduates variable.

*3. **Chemistry of Insecticides and Fungicides.** Discussion of the composition of commercial insecticides and fungicides and of the chemical changes involved in the preparation of spraying mixture. One lecture a week during the spring term.

*4. **Analysis of Insecticides and Fungicides.** Discussion of the methods employed in the analysis of insecticides and fungicides and of the chemical principles involved. One lecture a week during the spring term. Laboratory practice in the analysis of commercial products. Hours for graduates variable.

*5. **Dairy Chemistry.** Two lectures a week during the fall term. Laboratory practice in the analysis of milk and its products. Hours for graduates variable.

*6. **Food Chemistry.** Two lectures a week during the spring term. Laboratory practice in food analysis. Hours for graduates variable.

7. **Tutorial in Physical Chemistry.** One hour a week.

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*These are also given as undergraduate courses.

8. **Tutorial in Organic Chemistry.** One hour a week for one term.

9. **Tutorial in Colloid Chemistry.** One hour per week for one term.

Graduates taking Chemistry as a major subject must take the equivalent of at least six lecture hours from courses 4 to 9 (inclusive) as set forth above.

## DEPARTMENT OF BIOCHEMISTRY.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

ARCHIBALD BYRON MACALLUM:—*Professor of Biochemistry.*

ASSOCIATE OF THE FACULTY.

————————: *Assistant Professor of Biochemistry.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

Advanced lectures and laboratory work on the following:—

1. **General Biochemistry**.....Professor Macallum.
2. **The Chemistry of Animal Metabolism.**Professor Macallum.

These courses will involve about sixty lectures and about two hundred hours of laboratory work, the latter in addition to the research for the preparation of the dissertation for the degree.

Candidates who desire to proceed to the M.Sc. degree in biochemistry must have a good knowledge of chemistry (inorganic, organic and physical) and must have taken (or must take concurrently with the work for this degree) all the undergraduate work in biochemistry.

### COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

The courses offered by the department, covering what will be required for biochemistry as a major subject for the degree, will involve the extension of those listed above and also the following:—

1. **Organic Colloids in their Chemical and Physical Relations.**
2. **Laboratory Methods of Synthesis of a Number of Bio-organic Compounds.**
3. **Energy Transformations in the Animal and Vegetable Cells.**
4. **Problems of Biophysics.**
5. **Methods and Results in the Microchemistry of the Animal and Vegetable Cells.**
6. **Oxidation and Reduction in the Animal Cell.**

These courses will involve about one hundred lectures, to be given in the two later of the three years required for the degree. The candidate must attend and participate in the colloquia held fortnightly for graduate students in the department.

The requirements for registration for the degree of Ph.D., with Biochemistry as the major subject, are the same as those for the M.Sc.

## DEPARTMENTS OF BOTANY.

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

FRANCIS E. LLOYD:—*Professor of Botany.*

BERTRAM T. DICKSON:—*Professor of Botany (Macdonald College).*

ASSOCIATES OF THE FACULTY.

CARRIE M. DERICK:—*Professor of Morphological Botany.*

GEORGE W. SCARTH:—*Assistant Professor of Botany.*

J. G. COULSON:—*Lecturer in Botany (Macdonald College).*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

1. **Embryology of the Spermatophyta.**
   4 laboratory hours, including conference.....Professor Lloyd.
2. **Taxonomy.**. Critical Studies.
   4 laboratory hours.....Professor Lloyd.
3. **History of Botany.** Reading.
   4 hours, including conference.....Professor Derick.
4. **Plant Galls.**
   4 hours.....Professor Lloyd.
5. **Protoplasmic Studies.**
   4 hours.....Assistant Professor Scarth.
6. **Cytology.**
   4 hours.....Professor Lloyd.
7. **Morphology of the Angiosperms.**
   4 hours.....Professor Derick.
8. **Plant Physiology.** Repetitional Studies.
   8 hours.....Professor Lloyd.
   Assistant Professor Scarth.

Three courses, having the approval of the Head of the Department, must be taken.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

9. **Experimental Plant Morphology.** Problems and Research.
1 lecture; 12 hours laboratory.....Professor Lloyd.

10. **Plant Physiology.** Problems and Research.
(a) Cellular physiology; biophysics and biochemistry of the cell.
(b) Growth, irritability and reproduction.
(c) Nutrition and respiration.
2 hours conference; 12 hours laboratory.....Professor Lloyd.
Assistant Professor Scarth.

11. **Phytogenetics.**
2 lectures; 12 hours laboratory.....Professor Derick.

12. **Phytopathology.**
(a) Lectures and reading.
(b) Experimental work.
2 lectures; 12 hours laboratory.....Professor Derick.

13. **Colloquium**—Weekly.
This will be attended by candidates for the degree of M.Sc. also; they will give at least two presentations, while candidates for the degree of Ph.D. will give at least four.

14. **Journal Club**—Weekly.
In the second year leading to this degree, four approved courses must be taken.

Candidates should, except for special reasons, take chemistry or physics as a minor. For genetics, statistical methods are required.

Attendance at weekly colloquia and Journal Club meetings is required of all candidates for higher degrees. Presentation by candidates of the results of published research is also required.

**The following courses are given at Macdonald College:—**

The Graduate work given in this department is in the field of Plant Pathology and Mycology.

Candidates must have completed satisfactory undergraduate courses in plant morphology, physiology, taxonomy, histology, and cytology. Specialists in Plant Pathology should possess a general knowledge of the fundamental practices in agronomy and horticulture.

15. **History of Plant Pathology.** One lecture per week for one term. Extra reading required.

16. **Systematic Mycology.** Two lectures and two laboratory periods per week. A detailed study dealing with taxonomy, morphology, etc.

(a) Myxomycetes and Phycomycetes. 1st term, 1925-26.
(b) Ascomycetes and Adelomycetes. 1st term, 1924-25.
(c) Basidiomycetes. 2nd term, 1924-25.

17. **Advanced Plant Pathology.** Detailed studies of plant diseases; culture and inoculation work; field and greenhouse tests in control measures, etc. Two lectures and two laboratory periods per week for two terms.

18. **Physiology of the Fungi.** Nutrient requirements; carbon sources in nutrition; nitrogen fixation; enzymes in nutrition; H-ion concentration; temperature, light and moisture conditions; chemotropism; phototropism; staling; spore germination conditions; biologic specialization; physiology of parasitism; symbiosis. Two lectures and two laboratory periods per week for one term.

19. **Phytopathological Histology.** A study of abnormal plant structures caused by myxomycetes, fungi, bacteria, insects, etc., preparation of slides, photomicrographs, etc. One lecture and two laboratory periods per week for one term.

20. **Cytology of the Fungi.** Studies of sexuality; nuclear phenomena; formation of sporangium, conidium, pycnidium, perithecium, etc.; origin of setae, cystidia, etc.; development of chlamydospores, sexual and asexual spores, etc. Two lectures and two laboratory periods per week for one term.

21. **Special Technique.** A course covering the principles of photography; the preparation of plates, prints, lantern slides, photomicrographs, etc.; the use of filters; enlarging, reproducing. Training in glass-blowing may also be arranged. One lecture and four laboratory hours for one term.

22. **Seminar.** A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of general botany, physiology, cytology, histology, morphology, ecology, taxonomy, genetics, mycology, pathology. Attention will be more especially directed to such articles as have application in plant pathology or mycology. One period per week.

The course leading to the degree of Master of Science given at Macdonald College consists of 15, 22, two of 16a, 16b, 16c, and one other.

Only two years of the course leading to the degree of Doctor of Philosophy are given at Macdonald College. During these two years the candidates must take all the courses listed above.

The third year for the degree of Doctor of Philosophy may be taken by arrangement at McGill University (Montreal) or at some other approved University.

## DEPARTMENT OF ZOOLOGY.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

ARTHUR WILLEY:—*Professor of Zoology.*

ASSOCIATE OF THE FACULTY.

J. STAFFORD:—*Assistant Professor.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

*1. **Zoology of Invertebrata.**
2 hours lecture, 4 hours laboratory.

*2. **Colloquium.**
1 hour.

*3. **Zoology of Vertebrata.**
2 hours lecture, 3 hours laboratory.

*4. **Comparative Embryology.**
2 hours lecture, 2 hours laboratory, 2nd term.

*5. **General Zoology.**
2 hours lecture, 2 hours laboratory.

6. **Parasitology.**
2 hours lecture, 2 hours laboratory.

7. **Protozoology.**
2 hours lecture, 2 hours laboratory.

8. **Ecology.**
2 hours lecture, 2 hours laboratory.

## DEPARTMENT OF BACTERIOLOGY.

(Macdonald College.)

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

FRANCIS CHARLES HARRISON:—*Principal, Dean of the Faculty of Agriculture and Professor of Bacteriology.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

Numbers 1 and 2, together with any one of numbers 3, 4, 5 or 6 of the courses set forth below.

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*These are also honour courses in the Faculty of Arts.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

All those set forth below, together with certain others in Pathogenic Bacteriology and Serology given in the Faculty of Medicine.

1. **Cytology, Morphological Studies and Technique.**
One lecture and four laboratory hours for one term.

2. **General and special Technique, Glass Blowing, Photography and Photomicrography.**
One lecture and four laboratory hours for one term.

3. **Dairy Bacteriology.** Technique, a comprehensive survey of the bacteria of milk and its products.
One lecture and six laboratory hours per week for one year; six colloquia.

4. **Food Bacteriology.** Technique, a general survey of the bacteria of food and a special study of a group of foods.
One lecture and six laboratory hours per week for one year, six colloquia.

5. **Soil Bacteriology.** Technique and special methods, a general and special study of the microbiology of the soil. One lecture and six laboratory hours per week for one year; six colloquia.

6. **Bacterial Diseases of Plants.** Technique and special methods; bacterial plant diseases prevalent in Canada and the Northern United States.

One lecture and six laboratory hours per week for one year; six colloquia.

Prerequisites for students taking Bacteriology as their major subjects are:—At least one course in general bacteriology of a year's duration; chemistry (inorganic and organic) and physics. More chemistry, such as biochemistry and physical chemistry are advised. Students selecting soil bacteriology should have had previous courses in farm crops and soils. Students taking dairy bacteriology should have a good knowledge of dairy practice and the usual undergraduate courses.

Course 1 or 2 may be taken as a minor in a cognate course.

## DEPARTMENT OF ENTOMOLOGY.
### (Macdonald College.)

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

WILLIAM LOCHHEAD:—*Professor of Entomology and Zoology.*

ASSOCIATE OF THE FACULTY.

E. M. DU PORTE:—*Lecturer in Entomology.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

**1. Advanced Systematic Entomology.**

Four laboratory hours a week supplemented with lectures and colloquia.

Each student shall bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

**2. The History, Literature, and Organization of Entomology.**

An extensive reading course with a weekly colloquium, supplemented by lectures when necessary.

**3. Insect Morphology and Physiology.**

A comparative study of insect morphology, development and phylogeny; the histology and physiology of organs; research on assigned topics.

One lecture, one colloquium, and four hours laboratory.

**4. Advanced Economic Entomology.**

(a) *Insect Pests of Crops and Forests.* A continuation of course 8 of the B.S.A. course (See Macdonald College announcement). Extensive reading, with a weekly colloquium, and four laboratory hours.

(b) *Medical and Veterinary Entomology.* Two lectures.

(c) *Principles of Insect Control.* Two lectures.

(d) *Entomological Technique.* Field and laboratory methods in studying economic insects; photography; preparation of manuscripts and illustrations for publication; museum methods; insecticides and insecticide machinery. Two hours laboratory.

**5. Seminar.** 1½ hours.

Courses offered by the Department of Zoology may also be taken.

A candidate for the degree of Doctor of Philosophy may take two years at Macdonald College, and one at another University. In his second year he must take all of the courses outlined above which were not taken in his first year, and may select any of the others for further study.

Candidates who have taken the equivalent of the undergraduate courses in Entomology (see Macdonald College announcement) may complete the work for the degree of Master of Science in one year, otherwise at least two years will be required.

# DEPARTMENT OF ANATOMY.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

S. ERNEST WHITNALL:—*Professor of Anatomy.*

ASSOCIATE OF THE FACULTY.

JAMES C. SIMPSON:—*Associate Professor of Histology and Embryology.*

## COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

### 1. Anatomy.

(a) Special course on the detailed structure of the ear, nose and throat (for specialists in Oto-Laryngology).

(b) Special course on the detailed structure of the orbit and eye (for specialists in Ophthalmology).

Both these courses include the histology and surgical anatomy of the regions noted, and facilities are afforded for practical dissection and operative work as far as may be possible. The courses consist of laboratory work, study of preparations in conjunction with selected works of reference, and followed by colloquia. Each course extends over two months with attendance of two hours a morning on two days a week by arrangement.

Professor S. E. Whitnall.

### 2. Histology.

(a) A course on the histology of the tissues and organs in human and mammalian types. 150 hours laboratory and 30 hours lecture work extending through the Session (six hours a week).

(b) A special advanced course in Dental Histology. 12 two-hour periods for 12 weeks, or by arrangement.

Professor J. C. Simpson.

(c) A course on Histological Technique; 3 two-hour periods a week for 30 weeks of laboratory work and colloquia.

Professor J. C. Simpson.

### 3. Embryology.

General course in Organogenesis. 60 hours of lectures and demonstrations; two periods a week.

### 4. Anthropology.

Instruction in the principles, aims and methods of Physical Anthropology. Colloquia and laboratory work. Times to be arranged.

Dr. I. M. Thompson.

## DEPARTMENT OF PHYSIOLOGY.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

JOHN TAIT:—*Professor of Physiology.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

1. **Senior Laboratory**—chiefly mammalian experimental work. 3 hours.....Dr. Green

2. **Advanced Physiology.**

In this course certain branches of the subject will be selected for more detailed treatment because of their special medical or scientific interest. It is proposed this session to treat among other subjects the lymphatic system and vascular lining, cerebro-spinal fluid, central nervous system and endocrine glands.

2 hours lectures for 1 term.....Professor Tait and Staff.

3. **Structure and Function.**

This course includes a review of modern work in biology in which structure, whether of the developing or of the adult animal, has been investigated by experimental means. The aim is to show the scope and place of physiology and of physiological method in relation to such problems. A special study will be made of structural adaptations to physically new environment.

2 hours lectures for 1 term.....Professor Tait.

4. **Blood and Circulation.**

This course, designed in part for clinicians, will include lectures, laboratory work and demonstrations. The following questions will receive consideration:—Life history of the corpuscles, hæmoglobinometry, hæmocytometry, hæmolysis, blood transfusion, coagulation and arrest of hæmorrhage, cytology of the cerebro-spinal fluid, methods of recording pulse and blood pressure, electrocardiography and experiments on the excised heart and vessels.

1 hour lectures and 30 hours laboratory.

Drs. Green, Cassidy and Giblin.

5. **Physiological Colloquium.**

This meets weekly and is limited to those engaged in research in the department. Colloquium, 2 hours.

6. **Tutorial Class.**

Colloquium, ½-hour. Professor Tait.

### COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

#### Students' Physiological Society.

Both undergraduate and graduate students will find it of advantage to become members of the Students' Physiological Society. In addition to the privilege of hearing from time to time addresses on special departments of the subject, members are entitled to consult and to borrow books from the library of the Society, which contains many standard text-books and special works.

The advanced courses in physiology have been designed with two things in view: (1) to provide higher training for graduates who look forward to an exclusively academic career either in physiology or in some cognate branch of biological or medical science; (2) to offer increased facilities of study to the younger clinicians of the school. The work is arranged to meet the individual needs of each student.

## PATHOLOGY AND BACTERIOLOGY.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

Horst Oertel:—*Strathcona Professor of Pathology.*

ASSOCIATES OF THE FACULTY.

A. A. Bruère:—*Assistant Professor of Bacteriology.*

Theo. R. Waugh:—*Lecturer in Pathology.*

### COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY.

***1. The Biological Foundations of the Science of Disease in their Historic Development, and its Relations to Philosophy and other Sciences.**
2 lectures and demonstrations.....Professor Oertel.

***2. Advanced Haematology; its Technique, Methods, Physiology, and Pathological Deviations.**
(Open also to *advanced* undergraduates).
1 lecture and demonstration.....Dr. Waugh.

**3. Pathology Before and After Virchow.**
1 lecture and seminar, 1st term.....Professor Oertel.

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*These courses are also open to undergraduates.

4. **Special Problems in Haematology.**
Seminar twice weekly.....Dr. Waugh.

4a. **Research into haemotological problems.**
Daily.....Dr. Waugh.

5. **Practicum and Colloquium in Pathological Anatomy.**
2 colloquia.....Professor Oertel.

*6. **Lectures and Systematic Laboratory Exercises in Bacteriology, including the Consideration of the Important Pathogenic Micro-organisms, and their Cultivation and Identification.**
2 lectures, first term.....Professor Bruère.

7. **Practicum and Colloquium on the Methods and Technique of Serological Blood Examinations.**
1 colloquium, 2nd term.....Professor Bruère.

8. **Bacteriological and Serological Methods for Isolation of Pathogenic Micro-organisms Applied to Diagnostic Purposes and to Specific Organs.**
Daily, second term.....Professor Bruère.

9. **Research into Problems of Immunity.**
Throughout the session.....Professors Oertel and Bruère.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE.

Candidates for the degree should take courses 1, 3, 6, 7 with any one additional course desired.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

Candidates for this degree if they desire to devote their attention more particularly to pathology will take the other courses in that subject, and if they wish to follow more especially the study of bacteriology, they will take courses 8 and 9. In either case additional courses will be provided if necessary, to meet the instruction requirements.

Arrangements may be made by which candidates for either of these degrees may take a part of their work in the Department of Bacteriology at Macdonald College if they desire to do so.

## DEPARTMENT OF PHARMACOLOGY.

ASSOCIATE OF THE FACULTY.

RAYMOND L. STEHLE:—*Associate Professor of Pharmacology.*

Candidates for the higher degrees must present evidence of suitable preparation in chemistry and physiology and must have completed the undergraduate course in pharmacology.

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*These courses are also open to undergraduates.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

1. **Advanced Pharmacology.** Laboratory 90 hrs.; conference 30 hrs.
2. **Chemical Pharmacology.** Fifteen lectures on the chemistry of drugs, including discussions on the relations between chemical structure and pharmacological action.
3. **Bio-assay.** Laboratory 60 hrs.; conference 15 hrs.
4. **Colloquium.** 1 hr. weekly.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

Any of the above courses not taken in the first year of graduate study must be taken together with other courses which will be provided.

## DEPARTMENT OF GEOLOGY AND MINERALOGY.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

J. AUSTEN BANCROFT:—*Professor of Geology.*

ASSOCIATES OF THE FACULTY.

RICHARD P. D. GRAHAM:—*Associate Professor of Mineralogy.*

JOHN J. O'NEILL:—*Assistant Professor of Geology.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

Students must take Courses 1 to 7, inclusive.

1. **General Geology.**—As in "Text Book of Geology," by Pirsson and Schuchert, vols. 1 and 2. To be read by students, with occasional colloquia.
2. **Geological Colloquium.**—Papers on a great variety of geological topics are assigned to students for review and concise presentation as a preface to general discussion. Each year, this course must be taken by all graduate students in Geology. 1 hr. per week.
3. **Ore Deposits.**—As in "Mineral Deposits," by Lindgren; "Economic Aspects of Geology," by Leith; and "Principles of Economic Geology," by Emmons.
   Colloquim, 4 hrs. per week.....Assistant Professor O'Neill.
4. **Optical Mineralogy.**—Methods of determining the various optical properties of minerals. Optical chapters in Miers' "Mineralogy" and Dana's "Text Book of Mineralogy"; Tutton's "Crystallography and Practical Crystal Measurement." 1 lecture and 1 laboratory period per week during the first term.....Associate Professor Graham.

5. **Petrography.**—As in "Petrology for Students," by Harker, and "Essentials for the Microscopical Determination of Rock-forming Minerals and Rocks," by Johannsen. At least 9 hrs. laboratory per week.

6. **Palæontology.**—1 hr. lecture and 1 laboratory period per week.

7. **Physiography.**—This course must be taken by those who have not taken it in Fourth Year Arts.
2 lectures per week.....Professor Bancroft.

Students who have completed Undergraduate Courses in general geology, mineralogy, determinative mineralogy, petrography, Canadian geology, historical geology and ore deposits and economic geology, or their equivalents, may expect to complete their M.Sc. course in one year; otherwise two years are necessary for the Degree.

## COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

**(Second and Third Years.)**

8. **Advanced Petrography.**—"Igneous Rocks," by Iddings, vols. 1 and 2; "Natural History of Igneous Rocks," by Harker; "Rocks and Rock Weathering," by Merrill.
*Reference books:*—"Massige Gestine," by Roenbusch, and "Lehrbuch der Petrographie," by Zirkel.
At least 9 hrs. laboratory work per week.

9. **Advanced Mineralogy.**—Studies of the less common minerals and their determination by optical and other characters. Assigned readings on constitution, isomorphism, alteration, etc., of minerals, and general geophysical data as represented by papers published by the Carnegie Geophysical Laboratory.
3 hrs. laboratory per week.....Associate Professor Graham.

10. **Advanced Economic Geology.**—Assigned readings and studies of outstanding examples of various types of mineral deposits and of the application of Geology to the petroleum industry and to engineering problems; the preparation of geological reports.
Colloquium, 1 hr. per week...Professors Bancroft and O'Neill.

11. **Advanced Structural and Dynamical Geology.**—As in "Das Antlitz der Erde," vols. 1, 2, 3, and 4, by E. Suess. Students are also held responsible for "Structural Geology," by Leith; "Metamorphic Geology," by Leith and Mead; "Bild und Bau der Schweizer Alpen," by C. Schmidt; "Mechanics of Appalachian Structure," by Willis (13th Ann. Report U.S.G.S.);

Selected Readings from "Mechanismus der Gebirgsbildung," by Heim, and "Treatise on Metamorphism," by Van Hise; numerous papers on mountain building and isostasy.
At least 2 hrs. colloquia per week.

Professors Bancroft and ONeill.

12. **Physiography.**—"Earth Structure," by Jas. Geikie; "Physiography," by Salisbury; "Scenery of Scotland," by Sir Archibald Geikie, and assigned reports and papers pertaining to particular districts.

Professor Bancroft.

13. **Advanced Palæontology.**
1 hr. lecture and one laboratory period per week.

14. **General Reading.**—"Aspects of the Earth," by Shaler; "The Voyage of the Beagle," by Darwin; "Age of the Earth," by Sollas; "Geological Sketches," by Sir Archibald Geikie; "Founders of Geology," by Geikie; "Biological Essays," by Huxley; etc.

15. **Geological Colloquium.**—Same as Course 2, but must be taken each year by all graduate students. 1 hr. per week.

Ph.D. Students must complete Applied Science Chemistry 58, 61 and 62, if not previously taken.
The Final (Third) Year of the Ph.D. course will be almost exclusively devoted to research work in connection with the preparation of the thesis.

## DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

HENRY MARTYN MACKAY:—*Professor of Civil Engineering.*

ASSOCIATES OF THE FACULTY.

ERNEST BROWN:—*Professor of Applied Mechanics and Hydraulics.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

1. **Statically Indeterminate Stresses.** — General methods of stress analysis, influence lines, applications of braced arches, rectangular frameworks, etc.; theory of riveted joints; columns with lateral and intermediate loads, etc.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

2. **Technical Elasticity.**—The general equations of elasticity with various applications (special attention being paid to approximate numerical solutions); strength of flat plates, etc.; torsion of thin tubes

and prisms of non-circular section; the determination of stress distribution by means of polarized light; elastic stability; vibration of structures.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

3. **Secondary Stresses.**—Secondary stresses due to rigidity of joints, deflection of floor beams, eccentric connections, latticing, etc.; critical discussion of specifications for structural members in the light of tests.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

Professor MacKay.

4. **Reinforced Concrete Arches (Advanced).** — Preliminary design, development of influence lines, unsymmetrical arches, elastic piers, economics of concrete arches, etc.

One term, one hour tutorial, and 6 hrs. computation and reports.

Professor MacKay.

5. **(a) Aerodynamics.**—Fluid motion; the principles of flight, scale effect, experimental methods and results; prediction of performance; equations of motion; stability of aircraft propellers, etc.

**(b) Structural Design of Aircraft.** — Loading conditions during flight; detailed calculations of structural strength.

6. **Hydraulics.**—General principles of hydrology in relation to power development; stream gauging and use of records; flow in streams and in open channels of regular form; effect of dams and obstructions; backwater computations; the principles of hydraulics as applied to modern turbines; general trend of turbine development; turbine testing and characteristics; special problems such as pressure surges in conduits; general consideration of water-power plants, including the study of plants in operation.

One hour tutorial, and 6 hrs. computation and reports throughout the session.....Professor Brown.

## DEPARTMENT OF ELECTRICAL ENGINEERING.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

LOUIS A. HERDT:—*Professor of Electrical Engineering.*

ASSOCIATE OF THE FACULTY.

CLARENCE V. CHRISTIE:—*Associate Professor of Electrical Engineering.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

1. **Advanced Mathematics.**—Lectures and study under the direction of the Department of Mathematics.

Lectures, 2 hrs.....Professor Murray.

2. **Electrical Physics.**—Lectures and study under the direction of the department of Physics.

Lectures, 2 hrs.....Professor ———

3. **Electrotechnics.**

Colloquium, 2 hrs.....Professor Herdt.

The thesis will be in one of the following fields of investigation:

(a) Design, characteristics and testing of electrical machinery; investigation of special machinery; special problems of design.

Professor Herdt.

(b) Properties of dielectrics and electric insulators; laboratory instruction and experimental investigation, with facilities for high voltage testing.....Associate Professor Christie.

(c) Design, characteristics and testing of electrical engineering measuring instruments and devices. Facilities are available for precision measurements of most of the electrical quantities. Laboratory investigation of new types of measuring instruments and development of special devices.....Mr. Wallace.

(d) Investigation of devices for protection of electrical power systems; laboratory testing of relays and other devices; development of special types.....Assistant Professor Burr.

A workshop is available for the construction of special apparatus for research work.

## DEPARTMENT OF MECHANICAL ENGINEERING.

### ASSOCIATES OF THE FACULTY OF GRADUATE STUDIES.

CHARLES M. MCKERGOW:—*Professor of Mechanical Engineering.*

ARTHUR R. ROBERTS:—*Associate Professor.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

1. **Engineering Thermodynamics.** Prerequisites, Courses 220 and 251 (see Announcement of the Faculty of Applied Science).

3 hrs. colloquia .....Professor McKergow

2. **Machine Design.** Prerequisites, Courses 225 and 242 (see Announcement of the Faculty of Applied Science).

3 hrs. colloquia.....Professor Roberts

## DEPARTMENT OF METALLURGICAL ENGINEERING.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

ALFRED STANSFIELD:—*Professor of Metallurgy.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

1. **General Advanced Metallurgy.** A series of advanced studies of the theory and practice of metallurgy, taken from the following list:—

Physical properties and allotropic changes of metals.
Constitution and properties of metallic alloys.
Constitution and properties of slags and mattes.
Chemical equilibria, thermo-chemistry and speed of chemical reactions in metallurgical practice.
Design and efficiency of fuel-fired and electrical furnaces.
Properties, cleaning and utilization of furnace gases.
Electrolysis as applied to the refining and recovery of furnace gases.

Instruction is given by directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work. Dr. Stansfield, Mr. Sproule and Mr. Roast.

2. The same as No. 1, but including a special study of one or more selected metals, or of some special branch of metallurgy such as electro-metallurgy or hydro-metallurgy. (Alternative with No. 1). Dr. Stansfield.

3. The same as No. 1, but including a course of instruction and laboratory work on the properties of metals and refractory materials and the use of metallurgical testing instruments. (Alternative with No. 1).....Dr. Stansfield and Mr. Sproule.

In addition to the graduate courses set forth above certain undergraduate courses may be followed by students who have not already taken them. The following are suggested:—

4. **Applied Electrochemistry.** Fourth Year Applied Science, No. 70. 2 hrs. lectures in first term.

5. **Colloid Chemistry.** Fourth Year Applied Science, No. 75. 2 hrs. lectures in second term.

6. **Industrial Inorganic Chemistry.** Fourth Year Applied Science, No. 68. 2 hrs. lectures in first term.

7. **Physical Chemistry and Laboratory.** Fourth Year Applied Science, No. 66. 3 hrs. lectures in both terms and 2 laboratory periods in second term.

8. **Ore Deposits.** Fourth Year Applied Science, No. 148. 1 hr. lectures in first term and four in second term.

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NOTE.—Nos. 4, 6, 8 are in the Fourth Year Metallurgical Course, but are alternative; and so a student may have omitted one or two of them.

## DEPARTMENT OF MINING ENGINEERING.

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

JOHN BONSALL PORTER:—*Professor of Mining Engineering and Director of the Mining Building.*

ASSOCIATE OF THE FACULTY.

JOHN W. BELL:—*Associate Professor of Mining Engineering.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE.

A. *Undergraduate Courses open to Graduate Students who have not already taken them as undergraduates.*

1. **Mining Engineering.** Course 297 in the Faculty of Applied Science (see the Announcement of that Faculty). The whole of this course of three lectures per week for two terms, or selected portions of it (methods of mining), is suitable as part of the requirements for the degree of M.Sc.

2. **Mining Machinery and Design.** Course 298 in the Faculty of Applied Science (see the Announcement of that Faculty). The whole of this course of two lectures per week for one term, or selected portions of it (as hoisting machinery, etc.), are suitable as part of the requirements for the M.Sc. degree.

3. **Advanced Mining.** Course 299 in the Faculty of Applied Science (see Announcement of that Faculty). One lecture per week for two terms. This course is taken by one section only of the Undergraduate class in Mining and is suitable as advanced work for other students for the degree of M.Sc.

B. *Advanced Courses open to Graduate Students only.*

4. **The History of Ore Concentration.** The development of methods and appliances for the concentration and beneficiation of minerals and metallic ores. One lecture per week for one term. Dr. Porter.

5. **Works Organization and Management.** With especial reference to Mining and Ore Dressing establishments. One lecture per week for two terms.....Dr. Porter.

6. **The Theory of Rock Crushing and the Determination of the Efficiency of Rock Crushing Appliances.**
One lecture per week for one term.....Professor Bell.

7. **Rock Crushing Laboratory.** Advanced students who wish to supplement course No. 6 by additional laboratory work will be given one or two laboratory periods of two hours each per week for one term.
Professor Bell and Mr. Erlenborn.

8. **Sizing of Crushed Material by means of Sieves.** The theory and practice of sizing on sieves and similar devices. One lecture and one laboratory period per week for one term.

Dr. Porter and Professor Bell.

9. **Screen Sizing Laboratory.** Students who wish to supplement course No. 8 will be given one or two laboratory periods per week for one term.....Dr. Porter, Professor Bell and Mr. Erlenborn.

10. **The Settling of finely divided Mineral in Water.** Theories of classification and settling, the effect of temperature and of various electrolytes, colloids and flocculents, the calculation of settling rates and the design of settling tanks. Two lectures and one laboratory period for one term.....Professor Bell and Mr. Erlenborn.

11. **Classification Laboratory.** Advanced students who wish to supplement course No. 10 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

12. **The Separation of Finely divided Minerals differing in Specific Gravity on Inclined Plane Surfaces.** The theory and practice of table concentration. One lecture and one laboratory period per week for one term.....Dr. Porter and Professor Bell.

13. **Filtration in Ore Dressing and Cyanidation.** Theoretical and practical conditions governing the removal of finely divided and semi-colloidal minerals from water and dilute solutions by means of mechanical filtration apparatus. One lecture and one laboratory period per week for one term.....Dr. Porter and Professor Bell.

14. **Filtration Laboratory.** Advanced students who wish to supplement course No. 13 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

15. **The Cyanidation of Gold and Silver Ores.** Advanced studies of the theory and practice of cyanidation. One lecture per week for one term.....Dr. Porter, Professor Bell and Mr. Erlenborn.

16. **Cyanidation Laboratory.** Advanced students who wish to supplement course No. 15 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

17. **The Theory and Practice of Flotation.** Advanced studies in flotation, surface tension, etc. Two lectures per week for one term.

Professor Bell and Mr. Erlenborn.

18. **Flotation Laboratory.** Advanced students who wish to supplement course No. 17 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

19. **Coal Washing.** The application of ore dressing methods and of flotation to the preparation and purification of coal. One lecture per week for one term.....Dr. Porter

20. **Coal Washing Laboratory.** Advanced students who wish to supplement course No. 19, will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

21. **The Deterioration of Coal in Storage.** The oxidation and dehydration of coal on exposure to the atmosphere, spontaneous combustion of coal in mines and storage, and the methods of preventing spontaneous combustion of coal in storage. One lecture per week for one term.....Dr. Porter.

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NOTE.—The department reserves the right to substitute Colloquia in place of set lectures when the classes are small enough to warrant the change.

## DEPARTMENT OF AGRONOMY.

### (Macdonald College.)

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

ROBERT SUMMERBY:—*Professor of Agronomy.*

ASSOCIATE OF THE FACULTY.

ALEXANDER MCTAGGART:—*Assistant Professor of Agronomy.*

### COURSES FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE.

Candidates for the degree of Master of Science in Agriculture who take Agronomy as a major are expected to have had a good training in general botany, soils, and genetics.

Course 1, 4, 7 and one other are required. The remaining work to fulfil the requirements for the M.S.A. degree may be chosen from other courses in Agronomy or in the cognate sciences.

1. **Advanced Crop Production.** The fundamental principles of crop growth, and their relation to methods and practices of crop production. Two lectures for one term.

2. **Forage Crop Production.** Classification, adaptation, culture, uses and investigations.

(a) Hay and Pasture Crops. (b) Corn and Roots.

Two lectures and two laboratory periods for one term.

3. **Grain Crop Production.** Classification, adaptation, culture, uses, and investigations. One lecture and one laboratory period for two terms.

4. **Crop Breeding.** The underlying principles of plant breeding, methods of experimentation, and the application of biometric methods to agronomic investigations. One lecture and two laboratory periods for one term.

5. **Forage Crop Breeding.** The application of scientific principles to the problems of breeding; investigations, methods and technique employed.

(a) Hay and Pasture Crops. (b) Corn and Roots.

One lecture and one laboratory period for two terms.

6. **Grain Crop Breeding.** The application of scientific principles to the problems of breeding; investigations, methods and technique employed. Two lectures and two laboratory periods for one term.

7. **Seminar.** Fortnightly during the year.

# SCHOOL OF PHYSICAL EDUCATION.

## GENERAL INFORMATION.

**History and Aims.**

The McGill School of Physical Education was established in 1912, and has grown from a short summer course to a full two years' course which is now officially recognized by, and is an integral part of McGill University.

It is the only School of Physical Education in Canada connected with a University, with a full two years' course, and it has been fulfilling its purpose to provide Canada with a training centre for Teachers of Physical Education, with marked success since its inception.

A course in Massage and Remedial Gymnastics was given in 1914 to train workers for civilian and hospital work; this was amplified later in anticipation of war needs, and graduates of this course have done excellent work in the rehabilitation of wounded soldiers and in civilian practice. A further extension of the course was recently made to include all the Physiotherapeutic Measures, Hydrotherapy, Electrotherapy. This course has been temporarily discontinued.

The modern conception of education is one of intellectual, moral and physical development, and not, as has been too frequently misunderstood, the development of the intellect alone. Physical education, including as it does instruction in the laws of health and hygiene, with participation in all forms of physical activity specially selected for the stage of mental and physical development of the child, offers a splendid opportunity for not only increasing the efficiency of the human machine, but also for the development of social and moral qualities in the lives of our future citizens.

**The Field.**

The field for trained teachers in Physical Education is rapidly increasing and widening in scope, the demand far exceeding the supply in such organizations as the following:—

Public and Private Schools.
High Schools.
Colleges.
Y.M.C.A.'s.
Y.W.C.A.'s.
Church Clubs.
Playgrounds.
Recreation Centres.
Welfare and Social Clubs.
Settlements.
Industrial Organizations.
Boy Scouts.
Girl Guides.
Summer Camps, etc.

### Qualifications.

In addition to the matriculation requirements, there are certain qualifications necessary for the student who is to become a successful teacher of physical education. Because of the intimate contact with the pupils and the great influence that the teacher can exert, the student must be possessed of high ideals, moral character, noble aspirations, and a forceful personality. She must be able to initiate, organize and control physical activities, and also to counsel and advise upon personal questions with both children and parents. Students must also have had some practical training before entering.

### Courses Offered.

A two-year course, from September to May inclusive, is given in the theory and practice of physical education. This course is required for the Diploma of the School, and gives the student a thorough understanding of the mechanism of the human machine, its anatomy, physiology and the underlying principles governing the various functions of the mind and body. The student is made familiar with the theory and practice of physical education in its many forms, and, in addition to actual participation in the various activities, there is, before graduation, a considerable amount of time devoted to practice teaching under supervision.

Partial students may be admitted for the study of special subjects. Special arrangements will be made for admission to the course on Playground Problems.

### Facilities.

The work is carried on in the University buildings; the laboratories and museums being at the disposal of the students.

The University Library is available for use by the students, as are the University Hockey Rinks and Tennis Courts.

A special Library of selected works and the leading magazines on physical education is available for use by the students.

Through the kindness of the Protestant Board of School Commissioners, the Day Nursery, the Ladies' Benevolent Society, and the Protestant Orphans' Home, exceptional facilities are afforded for practice teaching and observation.

Clinical work and practical demonstrations are carried on in the Out-Patient Department of the Montreal General Hospital.

### Hostel.

A residence, in charge of a resident tutor, at 724 University Street, in the immediate vicinity of the campus, is conducted by the University and is available for students, provided application is made at an early date. Priority will be given to students without conditions. Printed regulations will be supplied to intending students. The Hostel opens Tuesday, September 16th.

Room rent $200.00 for the session; board in the Royal Victoria College (adjacent) $320.00 for the session. Charges for rent and board are paid in two instalments (October and February). Rooms are available from the day before the last day of registration (September 16th), until the day after Convocation, for students of the Second Year, and until the Saturday before Convocation (May 23rd), for students of the First Year. The board charges cover the same period. No room is assigned for a shorter period than the University session, September to May.

### Costume for Women Students.

The regulation costumes of the School must be worn, and students will not be permitted to wear other than the regulation garments. Measurement blanks will be furnished upon registration and students will be advised where the costumes can be secured, the approximate cost of tunic, gown, dancing dress and sweater being $50.00 (dancing sandals and shoes extra). A list of articles required, including clothes and books, with approximate cost, will be sent to students on application.

For ordinary wear, students are required to provide themselves with boots or shoes, the inner line of which is moderately straight, with block heels not higher than an inch and a half.

### Student Organization.

The students organize their own Association and elect a President, Vice-President, Secretary-Treasurer, and a Manager for each type of athletics.

### Alumnae Association.

There is a very active association of the graduates of the School which meets regularly for mutual benefit. It is the endeavour of the School to keep closely in touch with its graduates, to locate them in positions for which they are best suited, to advise upon particular problems, and to furnish them from time to time with new ideas and inspiration for the profession in which they are engaged.

## ENTRANCE REQUIREMENTS.

1. Students are required to have passed the Matriculation Examination, as follows:—

1. **English** (two papers).
2. **History** (one paper).
3. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper)].
4. One of the following:
   **Physics, Chemistry, Botany, Zoology, Physiography** (one paper).
5. One of the following:
   **Latin, French, Greek, German, Spanish** (two papers).

For requirements in each subject and other information regarding the examination, see pages 62 to 74.

A candidate who has qualified for admission to any Faculty of the University will also be accepted for the School of Physical Education.

Students holding the Degree of B.A. or B.Sc. will be eligible for advanced standing. A complete statement of the courses covered, together with the practical experience of the student, must accompany every such application.

### Physical Examination.

In order to safeguard the health of the student, every candidate on entering the school will be required to pass a satisfactory physical examination before proceeding with the course. In order to be sure of the applicant's fitness to undertake the course, out-of-town students are required to submit a medical certificate before registration. (See application form.)

### Vaccination.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the authorities.

### Health.

Provision is made by the University for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, will be distributed at the opening of the session.

**Admission.**

For the Session 1924-25, only women students will be admitted to the regular courses in the School, and students will not be admitted who are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is necessary and applicants must have had some practical experience of physical work before registration. Registration for the Session 1924-25 is limited to fifty (50) students and priority will be given to applicants who do not have conditions.

Two references, one of these from the parent or guardian, must be submitted with the application form. The second reference must not be from a relative.

Partial students, both men and women, will be admitted to special courses at the discretion of the Committee, and the work done will count toward the Diploma of the School.

## EXAMINATIONS AND PRIZES.

### Diplomas.

Examinations will be conducted in all subjects and diplomas, together with the Strathcona Certificate issued through the Strathcona Trust, are granted to successful students at the end of the session.

50 per cent. is required for a pass, 60 per cent. for second class, 75 per cent. for first class; but at least 60 per cent. must be made on teaching and in the major practical subjects.

The Educational Diploma is recognized by the Protestant Committee of the Council of Public Instruction, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying for the salary of Specialist in the Public Schools.

Students failing in their sessional examinations may, at the discretion of the Committee, take supplemental or special examinations.

### Prizes.

1. First Year Prize.—The School offers a prize to the student of the First Year who attains the highest general proficiency in the sessional examinations.

2. Final Year Gold Medal.—The School offers a prize of a gold medal to the student of the graduating year who attains the highest general proficiency throughout the course.

3. A Cup presented by the Class of 1916 is held for one year by the student of the Second Year gaining the highest standing in practical work.

Note.—No student shall be entitled to more than one prize in the final year.

### Regulations.

1. All students enter the School on an indeterminate probation. At the end of the first term, students who are considered unsuitable for the profession will be advised to discontinue. $77.00 of the fees paid at the beginning of the course will not in this case be returned.

2. A student may at the discretion of the Committee be requested to withdraw at any time for reasons of unsatisfactory work or conduct.

3. Except in the case of illness or emergency students must not absent themselves without previous permission, and students persistently late or absent will not be allowed to sit for the examinations.

4. No student will be permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.

## COURSES OF INSTRUCTION.

(The School reserves the right to change any of the Courses here stated.)

JUNIORS.

| | Hour. |
|---|---|
| English | 1½ |
| Physics | 1 |
| Chemistry | 1 |
| General Anatomy and Physiology | 3 |
| Osteology and Myology | 1 |
| Voice Development and Training | ½ |
| Theory of Physical Education | 1 |
| Class Management and Teaching | 1 |
| First-Aid | ½ |
| Playground Problems | 1 |
| Gymnastics | 5 |
| Recreational (Games and Athletics.) | 4 |
| Dancing | 2 |
| Aquatics | 1 |
| Practice Teaching | 2 |

SENIORS.

| | Hour. |
|---|---|
| Kinesiology and Applied Anatomy | ½ |
| Psychology | 1 |
| Physiology of Exercise | 1 |
| Physical Diagnosis | ½ |
| Remedial Gymnastics | 1 |
| Anthropometry | ½ |
| Preventive Medicine | 2 |
| Theory of Physical Education | 1 |
| Class Management and Teaching | 1 |
| Organization and Administration | 1 |
| Child Welfare | 1 |
| History, Physical Education | ½ |
| Gymnastics | 3½ |
| Recreational (Games and Athletics.) | 3 |
| Dancing | 3 |
| Aquatics | 1 |
| Practice Teaching | 3 |
| Remedial Gymnastics and Massage | 1 |

The hours as stated indicate sessional hours, one hour equalling thirty periods.

### THEORY.

JUNIORS.

#### English.

A course of thirty lectures on English Literature and English Composition. The course in Literature will include a discussion of the various types of literature, poetry, the essay, the short story, the novel and the drama, with illustrations from the great writers of these particular types from Chaucer to Kipling. The course in English Composition will include theory and practice in the use of words, the structure of sentences, paragraphs and whole compositions and the making of reports, both oral and written.

Conference hours for small groups will be arranged at the convenience of assistants and students.

Dr. Cyrus MacMillan 1 hour and a half.

### Physics.

This course is adapted to problems in physical education, so as to give the students an understanding of the practical applications of physical laws and principles bearing upon their work.

In mechanics the laws and action of simple machines, the laws of forces, of work and energy, of gases, of hydrostatics, of evaporation and related topics are explained and demonstrated. The other subdivisions of the course are dealt with in a similar manner, so that the students may gain a working knowledge of the various branches of physics such as are met with in physical education.

Professor Reilley. 1 hour.

### Chemistry.

This course will include the fundamental principles requisite for a knowledge of general chemistry. Stress will be laid upon the chemical interpretation of (a) combustion and its relation to respiration, (b) water purification and sanitation, (c) disinfection, (d) pasteurization. Where possible, trips will be arranged for practical demonstrations of the above lectures.

A series of lectures will be given on the phenomenon of solution in its various phases of neutralization, hydrolysis, electrolysis and osmosis. Compounds met with in ordinary daily routine will be discussed and illustrated with experiments. In conclusion, there will be a brief introduction to organic chemistry of general interest.

Dr. MacLean 1 hour.

### General Anatomy and Physiology.

The purpose of this course is to give the student a clear conception of the human body as a *living mechanism* in which the functions and structure are inseparably related, and in which the activities of all parts are intimately co-ordinated. As far as possible, therefore, the anatomy and physiology of the various organs and systems are considered together.

After an introductory study of the structure of the body as a whole, the great vital phenomena which distinguish all living organisms are considered and a detailed analysis made of the way in which they are exemplified in man.

In this way the various processes which go to make up the life cycle are taken up; the processes of ingestion, digestion, absorption,

assimilation, catabolism, respiration, excretion, irritability and conductivity, movement and reproduction—and the structure of the organs concerned in these functions studied.

Professor Simpson 3 hours.

### Osteology and Myology.

This course comprises a detailed description of bones, articulation and muscles with special reference to their functions, principles of leverage as applied to muscular action, study of joint movements, surface anatomy, demonstration with aid of skeleton and models.

Dr. Harvey 1 hour.

### Voice Development and Training.

Special exercises and individual practice in breath control, enunciation, articulation, tone projection, ability to control and conserve the voice in giving commands, instruction and in public speaking.

Miss Dowdney Half-hour.

### Theory of Physical Education.

In this course various types and methods of exercise will be studied, *e.g.*, marching, formal, rhythmical, mimetic, hygienic, remedial, corrective, apparatus work, recreational, games, athletics and aquatics. The place in the general plan of physical education and the value of each type will be carefully considered.

A consideration of the choice of various exercises for different types of classes, different ages and different stages of physical and mental development will also be taken up, as well as the adaptation of gymnastics to special conditions, climate, season, special activities, etc.

Dr. Lamb, Miss Cartwright, Miss Harvey, Miss Wain.....1 hour.

### Class Management and Teaching.

This course comprises a study of the various methods of grading and selection of material, physiological and psychological progression, teaching, terminology, construction of lessons, etc.

Miss Cartwright Miss Harvey, Miss Wain, Mr. Van Wagner, Dr. Lamb 1 hour.

### First-Aid.

The endeavour in this course is to give the student a thorough practical knowledge of the correct action to take in cases of emergency

The treatment of burns, scalds, sprains, dislocations, fractures, shock, hemorrhage, poisoning, etc., also the various kinds and uses of bandages, splints, antiseptics, etc., are carefully considered.

Successful students qualify for the certificate of the St. John Ambulance Association.

Dr. Tees — Half-hour.

### Playground Problems.

This course will relate the psychological principles to the actual activities of child life and the types of activity best suited for children of varying ages and development; theories of play, etc.

The various phases of playground activities will be specially considered; individual, group and mass athletics, gymnastics, dancing, games, singing, pageants, festivals, story-telling, hand work, raffia, basketry and kindergarten methods.

Special consideration will be given to playground organization, supplies, equipment and management.

Actual practical work and visits to grounds will be conducted.

Dr. Lamb, Miss Lorna Kerr — 1 hour.

## Seniors.

### Kinesiology and Applied Anatomy.

This course will consist of a general review, by means of lectures and demonstrations, of the mechanics of movement of the human machine, also of the classification and analysis of exercise, joint-movements and the action of muscle groups in producing motion.

Dr. Harvey — Half-hour.

### Psychology.

A brief outline of general psychology with special reference to relation between mind and body, and some of the more important principles of educational psychology.

Dr. Tait — 1 hour.

### Physiology of Exercise.

The object of the course is to study by lectures and practical demonstrations the effects of exercise on the various parts of the body.

The physiological effects of the various types of exercise, muscular contractions and massage; exercises of speed, strength, endurance, skill, static and rhythmical and mechanical exercises and their effect upon the neuro-muscular system, metabolism, respiration, circulation, etc.

The work in this course will supplement and apply the problems studied in physiology to the working power of the human machine, and energy, work, overwork, fatigue, second wind, breathlessness, exhaustion, recovery, training, muscular soreness, co-ordination, and tests for organic efficiency will be studied; thereby enabling the student to understand the underlying principles and to use expert judgment in the selection of the best methods of exercise to employ.

Dr. Lamb 1 hour.

### Physical Diagnosis.

Lectures and practical demonstrations in the methods of examination for defects of posture and development, especially of the spine and thorax; description of the deformities due to disease; examination by inspection, palpation, percussion and auscultation; tests for sight, hearing, nasal obstruction; examination for dental defects.

Students will be taught to recognize early contagious disease, the more common defects, and when to seek expert advice. Practice in methods of examination will be carried on under supervision.

Dr. Harvey Half-hour.

### Remedial Gymnastics.

Description of the various postural defects and other abnormalities of development, such as round shoulders, spinal curvature, torticollis, flat feet and their cause.

Lectures, demonstrations and practice in treatment by corrective exercises will be given with special attention to the abnormal conditions found among school children and the preventive measures indicated. A consideration of conditions amenable to treatment by massage will be given in this course. Practical work with individual instruction will be carried out at the clinics of the out-patient department of the Montreal General Hospital.

Dr. Harvey Half-hour.

### Anthropometry.

This course will include the application of measurements and tests to determine the size, state of development and function of the body; comparative study of types with reference to effect of age, sex, race, occupation and environment; measurements which indicate adaptability for various forms of work or exercise and the relation to vital capacity and endurance; demonstrations of the use of anthropometric instruments for size and bodily proportions, and to determine strength and range of

movements; graphic methods of representation illustrated, and the use and method of preparing tables of percentages. Actual practice in the use of the above methods will be conducted throughout the course.

Dr. Harvey — Half-hour.

### Preventive Medicine.

The study of Preventive Medicine is taken up under the following heads:—

(a) *Bacteriology and Serology.*

Lectures and demonstrations are given in the study of the more common pathogenic organisms and communicable diseases. Their relation to health is considered in air, water, food, clothing, skin, hair, mouth, etc. Precautions against and means of combating pathogenic organisms are studied in, e.g., sterilization, disinfection, pasteurization, vaccination, immunization and general prophylaxis.

(b) *Personal Hygiene.*

A consideration of the functions of the body, its environment, the responsibility of the individual and the means by which health is maintained; the care of the body, sleep, bathing, food, clothing, etc.; problems in sex hygiene of children, adolescents and social hygiene are discussed.

(c) *Public and School Hygiene.*

Health organizations and the means for the maintenance of health; occupational diseases and the effect of various occupations on health; sanitation, light, heating, ventilation, water supply and drainage, schoolroom inspection, etc.

Dr. Starkey and Miss Cartwright — 2 hours.

### Theory of Physical Education.

A continuation of the course outlined for Juniors.

### Class Management and Teaching.

A continuation of the course outlined for Juniors.

### Organization and Administration.

This course comprises a study of various problems in organization and administration, from arranging a simple schedule of competitive events to the organization and supervision of a Department of Physical Education.

Actual visits to study organizations of various types will be made under supervision.

*Athletics:* Arrangement of schedules, athletic meets, entry blanks, duties of officials, reports and records of games, group activities, classification of competitors; governing bodies; ethics of sport.

*Gymnasium:* Construction, equipment and care, locker rooms, swimming pools, municipal baths; office management; correspondence, filing, reports; committees, meetings, purchasing supplies, budget, maintenance and repair.

*Public and High Schools, Colleges:* Medical examinations and records, prescribed work, elective athletics, credits, penalties, leaders, recess, leagues, intra and extra-mural activities, health programmes relation to grade teachers, Supervisors, Principal, School Boards, and other schools.

*Social Agencies and Organizations:* Related forces, Y.M.C.A., Y.W.C.A.; settlements and welfare organizations with voluntary activities.

*Summer Camps:* Organization, preparation, site, housing, equipment, supervision, activities, trips.

*Winter Sports and Carnivals:* Ski-ing, snowshoeing, tobogganing, skating.

Dr. Lamb, Mr. Powter 1 hour.

### Child Welfare.

Influences necessary to the normal development of the child in its home, at school, at play, and at work; the treatment of dependent, neglected, delinquent, and defective children; child welfare legislation, organizations, etc. 1 hour.

### History of Physical Education.

This subject covers the history of ancient, mediæval and modern physical education—the games and athletics of the Greeks and Romans; the decline of the middle ages and the revival during the Renaissance; the various modern systems, the rise and development of play and recreation and the influence of present day methods on the mental and moral condition of the race.

Miss Cartwright Half-hour.

## PHYSICAL PRACTICE.

JUNIORS AND SENIORS.

The practical courses are planned to enable the student to gain not only an adequate knowledge of the numerous activities in physical education, but also to attain a moderate degree of skill in each type and to be able to intelligently teach and direct physical activities.

The student is made thoroughly familiar with the broad underlying principles of practical work and is furnished with ideas and ideals, thereby facilitating the application to any conditions which may arise in the teacher's field of endeavour.

*Military and Fancy Marching Tactics:*

Methods for handling large and small groups, marching, variations, etc.

*Formal and Free Gymnastics—Light and Heavy Apparatus:*

Carefully graded exercises including side and long horse, buck, ropes, poles, boom, balancing beams, ladders, rings, horizontal and parallel bars, elephant or box, stall bars, chest weights; dumb-bells, wands, clubs, etc.

*Corrective:*

Special corrective and posture exercises.

*Hygienic:*

Exercises producing a maximum of effort in a short time.

*Group Activities:*

Tumbling, pyramids, etc.

*Recreational; Games and Athletics:*

The fundamental elements of running, throwing, jumping, climbing, dodging, as they apply to the simple kindergarten games, leading up to the highly organized indoor and outdoor activity for both sexes.

Special subjects in this course may be taken in conjunction with "Playground Problems," thus forming an excellent preparation for those desirous of conducting playground or settlement activities.

Seniors are taught how to coach and judge; rules of competition; how to meet practical problems in the control of games and athletics.

| | |
|---|---|
| Kindergarten Games. | Dancing |
| Simple games for all ages | Tennis |
| Captain Ball | Ice Hockey |
| Dodge Ball | Lacrosse |
| Volley Ball | Soccer |
| Basket Ball | Track and Field Athletics |
| Indoor Base Ball | Winter Sports |
| Field Hockey | Fencing |

*Dancing:*

This course includes social, folk, national, aesthetic, interpretative and rhythmical dancing. Technique and theory are included and students are instructed how to teach dancing as a branch of Physical Education.

*Aquatics:*

There is an increasing demand for teachers who can specialize in this activity; methods of individual and class instruction of breast, back, side, crawl and trudgeon strokes; diving; life saving, methods of release, rescue and resuscitation; water polo; aquatic meets, etc.

Miss Cartwright, Miss Harvey, Miss Wain, Dr. Lamb, Mr. Finlay, Mr. Van Wagner, Mr. Powter, Mr. Shaughnessy. 14½ hours.

**Practice Teaching.**

Great stress is laid on the practice of class teaching in gymnastics, games and dancing. Students are required to submit lessons and then to teach them. In this way timely suggestions and criticisms are offered as experience is being gained in the practical application of the principles of Physical Education.

Students in the Junior year begin by teaching each other, and toward the end of the Session they teach classes in the Day Nursery, the Ladies' Benevolent Society, the Protestant Orphans' Home, etc. Senior students teach in these institutions at the beginning of the Session and in the Public Schools of the Protestant Board of School Commissioners during the last three months of the course.

Students are encouraged to take active charge of classes in Club and Settlement work throughout the Session.

Miss Cartwright, Miss Harvey, Miss Wain, Mr. Powter. 2½ hours.

## Remedial Gymnastics and Massage.

(Seniors only.)

(a) *Active Exercises.*

The classification and practice of movements used for remedial treatment; actual practice in class work. Observations in the Hospital clinics.

(b) *Passive Exercise and Massage.*

A consideration of the theory and effects of massage with actual practice in the technique of massage manipulations; contra-indications; methods of treating disease, deformities, fractures, dislocations, sprains, etc.

Dr. Harvey, Miss Hancock, Mrs. Hay — 1 hour.

# SCHOOL FOR SOCIAL WORKERS.

## FOREWORD AND HISTORY.

There has been a marked growth in recent years of all kinds of social work. The variety of opportunities for service in this field is very great. To those who are interested in human problems it affords a challenging and satisfying vocation. The status of the social worker is secure, for such work is widely recognized as a vital part of community life. The public is spending larger and larger sums of money on social welfare and has a right to expect that those only should be appointed to the work who have made every effort to attain efficiency by careful training.

The Department of Social Service at McGill University grew out of the need for social workers, with a breadth of view and scientific training, for the cities, towns, and open country communities of Quebec and the Maritime Provinces. It aims now, however, to supply the needs of a much wider field. The Department was founded in 1918, under the Principalship of the late Sir William Peterson. At the outset it was aided financially by the Joint Board of Theological Colleges, the Graduates' Society and two private individuals.

During the first four years, the Department was successfully directed by Mr. J. Howard T. Falk, who resigned to become Executive Secretary of the Montreal Council of Social Agencies and of the Financial Federation. He was succeeded by Dr. Carl Addington Dawson as Director of the Department and Assistant Professor of Social Science in the University.

Miss Jane Wisdom has been instructor in social case work for the past two years, and in that capacity has performed splendid teaching service. The General Secretaryship of the Women's Directory now requires her full time. Her successsor is Miss May Reid, who becomes instructor in case work and supervisor of field work for the School.

Miss Reid is a graduate of Brandon College, and received her practical training in social work in Winnipeg and Brooklyn. In the latter city she became assistant supervisor of the Brooklyn Department of Service and Relief; she was also instructor in social case work in the Summer School of Columbia University and supervisor of the field work of the students. Miss Reid comes to McGill with a wide range of experience in social work and teaching. In addition to her position at McGill, she is also Personal Service Secretary of the Montreal Council of Social Agencies.

## EDUCATIONAL AIMS.

The Department offers opportunities for training and education to the following groups:—

1. Those who wish to take up social work as a profession.
2. Volunteer workers who wish to get more knowledge and skill in social work.
3. Workers in service who have not had training in a school of social work, or who have had a limited amount of training.
4. Members of boards and social service committees who want a clearer insight into the matters with which they have to deal.
5. All those who want to realize more fully the social obligations of citizenship. It is a chance and a challenge to contribute to the building of Canadian life on a broader and more enduring social knowledge.

## THE FIELD OF SERVICE.

The trained worker may follow his or her profession (practice of social work) in the following fields:—

Family welfare.

Child welfare.

Work with Girls or Boys.

Immigration Workers.

Institutions for the care of Children or of Adults.

Hospital Social Service.

Social Service with Churches.

Probation Officers.

Clubs, Settlements, Community Work.

Personnel Management.

Government Departments.

Social Welfare Secretaries.

Employment Bureaus.

Social Research.

Y.W.C.A. and Y.M.C.A.

Rural Community Work.

At present the demand for capable persons, who have had education and training in the field of social work, is much in advance of the supply. Social work is a profession for men as well as women, and the School seeks the entrance of a larger number of men to meet the requests that come to it from various agencies.

## THE SCIENTIFIC POINT OF VIEW IN SOCIAL WORK.

On the remedial side social work helps to readjust the family, or the individual, to normal conditions of life, but its programme of service takes into account the causes of mal-adjustment and atempts to eliminate them. There is an increasing number of social agencies whose policy and programme is purely preventive. It is their aim to provide facilities for wholesome personal and social development (broadly covered by community, club, recreational and educational work).

## ADMISSION.

Candidates for admission are required to make application on a form supplied by the School. Applications should be made as soon as possible to the Secretary of the School.

Students intending to register must first call at the Office of the School for Social Workers.

Diploma Course (Two Years).—A Junior Matriculation Certificate or its equivalent will be required for admission to this course. It is highly desirable that the entrants to the School for Social Workers be college graduates, and they are advised to complete their undergraduate work, if at all possible. Students who have a Junior Matriculation Certificate or its equivalent are, however, admitted to the Diploma Course. In exceptional cases the admission of those who have not completed the technical entrance requirements, but whose knowledge, experience and personality single them out as persons of promise, will be considered by the Director.

Certificate Course (One Year).—Students taking the Certificate Course will be required to attend for nine months. Students will be admitted without a Matriculation Certificate if they are able to show evidence of academic standing sufficient to enable them to take the Course with profit to themselves. The Certificate Course is retained for the present, but a two-year course should be considered a minimum period for social work. Students are advised to give the Diploma Course every consideration.

Types of Previous Experience.—College graduates, graduate nurses with a general education equivalent to matriculation standards, those who have had experience in business, teaching, and church or social work, should take the courses successfully.

Human Qualifications.—In addition to training, it is the human qualifications such as tact, patience, sympathy, poise, cheerfulness and that something which we may term "religion" and which "calls" a person into social work, that distinguishes the effective from the ineffective. Such may be considered the pre-requisites of an embryo social worker.

AGE.—Persons under 21 and over 35 years of age will only be admitted under exceptional circumstances.

STUDENTS AS UNDERGRADUATES IN ARTS.—Those who are too young to enter the School for Social Workers may take all or part of their undergraduate work at McGill, specializing in the field of Social Science and allied Departments. This gives a fundamental background for social work. Following graduation, they may cover the Diploma Course in one year. During the undergraduate years, it is possible to get practical experience in the settlements and clubs in Montreal.

PARTIAL STUDENTS.—All lectures in the School for Social Workers are open to Partial students. A statement of standing for courses taken under examination can be obtained from the Director. Examinations are optional.

## REQUIREMENTS FOR A DIPLOMA OR CERTIFICATE.

### DIPLOMA COURSE.

(The Diploma Course is covered in two years.)

**First Year Courses:**

Social Case Work.....2 hrs. per week, sess.
Principles of Physical and Mental Health.....1 hr. " " "
Introduction to the Study of Society.....3 hrs. " " "
Introduction to Psychology.....3 hrs. " " "
Elements of Political Economy.....3 hrs. " " "
Field Work .....1½days" " "

**Second Year Courses:**

Advanced Case Work.....1 hr. per week sess.
Industrial History.....1 hr. " " "
Public Hygiene.....2 hrs. " " "
Child Welfare.....2 hrs. per week, 1st term
The Community.....3 hrs. " " 1st "
Organization and Administration of Social
Agencies .....2 hrs. " " 2nd "
Home Economics.....1 hr. " " 2nd "
Social Pathology.....3 hrs. " " 2nd "
Practical Legal Problems.....1 hr. " " 2nd "
Field Work.....2 days per week, sess.

**Alternative Courses:**

The Psychology of Play; Playground Supervision
and Equipment.....3 hrs. per week, sess
Hospital Social Service.
Immigration
Institutional Workers.

A student may proceed to the Second Year with any one full course, or its equivalent, unpassed. A certificate of standing can be given on the satisfactory completion of one year's work.

### CERTIFICATE COURSE.

(The Certificate Course is covered in one year.)

| | | | | |
|---|---|---|---|---|
| Social Case Work | 2 hrs. | per week, | sess. | |
| Principles of Physical and Mental Health | 1 hr. | " " | " | |
| Industrial History | 1 hr. | " " | " | |
| Public Hygiene | 2 hrs. | per week, | sess. | |
| Psychology | 1 hr. | " " | " | |
| Child Welfare | 2 hrs. | " " | 1st | term. |
| The Community | 3 hrs. | " " | 1st | " |
| Organization and Administration of Social Agencies | 2 hrs. | " " | 2nd | " |
| Home Economics | 1 hr. | " " | 2nd | " |
| Social Pathology | 3 hrs. | " " | 2nd | " |
| Practical Legal Problems | 1 hr. | " " | 2nd | " |
| Field Work | 1½ days | per week, | sess. | |

The Diploma or Certificate of the School is awarded to students who obtain an average mark of 50% and not less than 40% in any one written examination. Students must also receive satisfactory reports from the social agencies in which their field work has been taken.

Students holding degrees, diplomas or certificates from any recognized University will be given credit for courses which they have covered, but the School may require them to take an examination on such subjects.

## FIELD WORK.

Too much emphasis cannot be laid on the importance of field work as part of the training of a social worker. The field work during the first term will be taken as far as possible with a family agency. In the second term (or, in the case of a Diploma student in the Second Year) the student will be permitted to choose from one of the several fields which will include work with hospital social service departments, children's agencies, social settlements, etc.

Following the Spring Convocation, students will take two months' intensive field work with one of the selected agencies.

Credit for this intensive period will be written in on the student's Certificate or Diploma when it is completed.

## TIME REQUIRED.

Students taking the Certificate Course in one year, or the Diploma Course in two years, cannot expect to do the work of the School satisfactorily unless they give their full time to it.

Diploma and Certificate students will be required to attend not less than twelve hours' lecture periods per week, in addition to prescribed laboratory and field work.

Students who for special reasons are not able to follow the regular curriculum of the Certificate or Diploma Course, may, if those reasons appear satisfactory to the Director, be accorded the status of Limited Certificate or Diploma students. Such Limited students may distribute their work over two years in the Certificate Course, and over four years in the Diploma Course, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular Certificate and Diploma curricula.

## BOARD AND LODGING.

Accommodation for a limited number of out-of-town students can be arranged for at the University Settlement, 179 Dorchester St. West, fifteen minutes' walk from the University. Rates: $10.00 to $15.00 per month for room alone; $35.00 to $40.00 per month for room and board. Residents are required to give one or two evenings a week to helping in the work of the Settlement.

## BURSARIES.

A small loan fund is at the disposal of the Committee, from which assistance can be given to a student who would otherwise be unable to take the work of the Department. Loans will be repayable on easy terms.

Applications for assistance from this fund should be made as early as possible.

## SCHOLARSHIPS.

Among our college graduates, and also among those with a good general education who have been successful in the practical affairs of everyday life, there are many promising persons who would perform splendid service in the field of social work. For the benefit of such persons, who might find it very difficult to arrange for an extended period of practical education and training in social work, a few scholarships are being established. These scholarships will be for two-year (Diploma) students, and will amount to $150 for each of the two years. They will be awarded on a basis of ability, experience, references and financial need.

It is hoped to have a few Workers in Training Scholarships to allow students from the School or workers from agencies in Montreal to spend half their time in the School and half in the agency. Such persons must be acceptable to the School and to the agency.

It is expected that these scholarships will be in readiness for the new school year 1924-25. Application should be made to the Director early in the summer.

Prizes are offered for the highest standing in the work of the various courses.

## FACILITIES.

**Montreal as a Social Work Laboratory.**—In Montreal, the student can see a large number of social agencies in operation and can know at first hand how experienced social workers help people to solve their difficulties. It offers a variety of opportunities for the practice of social work under guidance. This is essential to the education of the social worker.

**Library.**—The School has developed a special library dealing with social problems and social work. These and the other books in the McGill Library are readily accessible.

**Lectures.**—Apart from the lectures that the student is required to attend, there are many lectures at McGill given by local and visiting professors, eminent public men and others. These are interesting, stimulating and instructive.

**Social Life.**—All students in the School may become members of the Undergraduate Society of the McGill School for Social Workers, and thus participate in its various social activities and student administration. This society gives the School representation in the Women Students' Society of McGill, and links the students with the larger life of the University. An Alumnae Society is under organization.

**Medical Examination.**—After college opens all new students must present a certificate of medical examination. The examination may be made by the student's own doctor or by the University Medical Officer. The latter examination is held free of charge. Medical forms may be secured from the Secretary if the examination is not to be held at the college.

**Athletics.**—Athletic exercises in the form of basket ball, tennis, ice hockey, etc., are available. All students desiring to take part in any of these activities, as well as students coming to the University for the first time, are required to present a satisfactory medical certificate.

# COURSES OF LECTURES.

## I. COURSES IN THE SCHOOL FOR SOCIAL WORKERS.

**Social Case Work.** Two hours.....Miss Reid.

This course presents, through the study of actual histories, the case method of dealing with social maladjustment. It enables the student to approach, analyze and interpret individual, family and group problems and to recognize the basis upon which to work out a solution. It discusses the function of the different types of social agencies in the working out of a social programme, and offers a practical basis for constructive and preventive social work.

**Advanced Social Case Work.** One hour.....Miss Reid.

This course is intended for students who have taken Social Case Work 1 or its equivalent, and have had experience in field work. It extends the application of the principles and method of case work to specific social problems.

**Principles of Physical and Mental Health.** One hour.

(a) The nature of the physical organism; fatigue, rest and exercise; child hygiene; diseases of respiration; heart diseases; tuberculosis; cancer; skin diseases; venereal disease. Dr. A. S. Lamb, Dr. A. B. Chandler, Dr. A. H. Gordon, Dr. H. P. Wright, Dr. J. Roddick Byers, Dr. F. Tees, Dr. Gordon Campbell, Dr. R. E. Powell.

(b) Anatomy and physiology of the nervous system; nervous diseases; definition of fallacious sense perceptions; different types of mental diseases—symptoms, causes and treatment of; mental deficiency; conduct disorders of childhood; juvenile delinquency; the psychopathic personality; relation of social work to psychiatry; history and case record making.

References: The Measurement of Intelligence, Terman; Outlines of Psychiatry, W. A. White; Mental Deficiency, Mental Hygiene, Tredgold.

In connection with the course, students will have the opportunity to witness clinical examinations and tests at the Psychiatric Clinic, Royal Victoria Hospital, and the Child Guidance Clinics.....

Dr. Gordon S. Mundie.

**Industrial History.** One hour....Associate Professor Hemmeon.

This course is a description of the changes in industrial conditions during and since the Industrial Revolution. It traces the development of capitalism, the factory system, association of capital and labour, and explains the social effects of recent industrial changes. It describes briefly proposed modifications of the present economic systems and proposed substitutes for that system.

**Practical Legal Problems.** One hour, second term.....
Professor Smith and Others.

1. *Introductory.*—The nature of law evidence.
2. *Domestic Relations.*—(a) Husband and wife; (b) Parent and child.
3. *Industrial Legislation.*—(a) Employer's Liability; (b) Workmen's Compensation; (c) Child Labour Legislation, etc.

**Home Economics.** One hour, second term.....Miss Philp.

Food in relation to health; the dietetic and economic values of foods; planning menus; family budgets and their use.

**Child Welfare.** Two hours, first term..Lecturer to be appointed.

Influences necessary to the normal development of the child in its home, at school, at play and at work; the treatment of dependent, neglected, delinquent and defective children; the child of the unmarried mother; child-welfare legislation.

Text-Books: Child Placing in Families, Slingerland (Russell Sage Foundation); How Two Hundred Children Live and Learn, Reeder (Noble); Juvenile Courts and Probation, Baldwin and Flexner (Century Co.); Delinquent Child and the Home, Breckenridge and Abbott (Russell Sage Foundation).

**Organization and Administration of Social Agencies.** Two hours.
Second Term.....Mr. Falk.

Organization; forms of management; responsibilities of a director or trustee; responsibilities of executive secretary; office management; conduct of meetings; charitable accountancy and auditing; financial statements; publicity in social work; financing social agencies; federation in social work.

**Public Hygiene.** Two hours.....Dr. Macdonald.

The field of preventive medicine; safeguarding water, milk and food supplies; disposal of sewage and refuse; proper methods of ventilating, lighting and heating houses, with special attention to slum property; school hygiene; the prevention of defects, disease dangers, and relation of home conditions to school; industrial hygiene and conditions injurious to the health of workers; infectious diseases and the problem of immunity; governmental regulation and inspection; public health movements and agencies.

**Hospital Social Service.**

An analysis and presentation of the problems that fall particularly in the field of hospital social service and the application of suitable case-work methods.

(Given when demand is sufficient.)

## II. COURSES IN THE SCHOOL OF PHYSICAL EDUCATION.

**Psychology. One hour**.....

A brief outline of general psychology with special reference to relation between mind and body, and some of the more important principles of educational psychology.

**The Psychology of Play: Playground Supervision and Equipment.**

Students intending to enter the Social Settlement field will be required to take this course.

Consideration will be given to the principles underlying the play life of the child; classes in folk dancing, and games for all ages.

## III. COURSES IN THE FACULTY OF ARTS.

**Introduction to the Study of Society.** (Social Science 1.)

Three hours.....Assistant Professor Dawson.

Human nature; society and group; isolation and contact; the nature and effects of communication; social forces; competition and the location of the individual in the community; war, racial and cultural conflicts; social control; collective behaviour; social progress.

Introduction to the Science of Sociology, Park and Burgess.

**The Community—a Study of Rural and Urban Life.** (Social Science 2.)

Three hours.....Assistant Professor Dawson.

Methods of studying the community; social anatomy; a comparative study of communities and their fundamental nature; analysis of the underlying forces of the social processes which make for natural groups and institutions (to meet needs: industrial, leisure time, religious, educational, governmental, social agencies); disorganization and reorganization in modern communities; community culture.

**Immigration.** (Social Science 3)....Assistant Professor Dawson.

Social, industrial and political phases of the immigration problem; types of migration and immigration; present sources for Canadian immigration; immigration laws and policies; assimilation and Canadianization.

**Social Pathology.** (Social Science 4.)

Three hours, Second Term.....Assistant Professor Dawson.

Statistical and other methods of research; dependency (including poverty); defectiveness; degeneracy; social variation; social unrest and disorder; pathology of play and amusements; crime, delinquency, the gang; family disorganization, desertion; tendencies in the direction of social reorganization. Supplemented by field trips, individual and group studies.

**The Family.** (Social Science 7).....Assistant Professor Dawson

The study of the family as a fundamental social institution, its early forms, customs, attitudes, and natural history; sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational, and legal aspects of family life. Present day disorganization and reorganization of family life.

**Introduction to Psychology.** (Philosophy 1.) Three hours.
Professor Tait.

Lectures, class experiments and exercises.

**Elements of Political Economy.** (Economics 1.) Three hours.
Professor Leacock and Associate Professor Hemmeon.

## EXTENSION LECTURES.

In connection with the Committee on Extension Work, two series of lectures, open to the general public on payment of a small fee, were arranged by the School for Social Workers. The first consisted of ten lectures on Social Work, and was largely attended by members of the Junior League.

The second series was given in the evening, and consisted of six lectures on "Social Problems." This latter series, which is held annually, gives to the larger public an opportunity to hear some of the most recent and vital aspects of questions concerning social work and community life discussed by prominent leaders and research students in this field. The series for 1923-24 was as follows: "The Juvenile at Large," Dr. William Healy; "Round Table," discussion by Dr. Healy of his methods and results; "Recreation in Institutions," R. K. Atkinson; "Occupational Pitfalls," A. W. Crawford; "The City Wilderness," Robert A. Woods; "The Frontier of Child Welfare Organization," Miss Mary Power.

The School is ready to arrange special series of popular lecture courses in the social field for churches, schools, social agency boards, social service committees, community, neighbourhood and other groups. It is also ready to arrange social clinics for interested groups.

# SCHOOL FOR GRADUATE NURSES.

## GENERAL STATEMENT.

The School for Graduate Nurses was opened in 1920 to provide training for Public Health Nurses and to prepare nurses for administrative and teaching work in hospitals and schools of nursing.

The establishment of the School for Graduate Nurses was made possible by the generosity of the Quebec Provincial Red Cross Society, which agreed to finance the undertaking for three years. During this period forty-four students successfully completed their course and received certificates, eighteen in Public Health Nursing, nineteen in Teaching in Schools for Nursing, and seven in Administration in Schools of Nursing. The great majority of these women are filling important positions in Canada; two or three are at work in the United States. The School is in touch with nearly all of them.

Each year, besides the students taking full-time courses leading to a certificate, a number of partial students have been registered. In this way nurses on the Staff of one or other of the local hospitals, of the Victorian Order of Nurses, the Metropolitan Life Insurance Co., and the Child Welfare Association have profited by the opportunities offered in the School.

In October, 1924, satisfied that the School for Graduate Nurses is doing work of value to the Community, the University became responsible for its maintenance.

### AIMS OF THE SCHOOL.

The courses offered in the School for Graduate Nurses are designed to prepare qualified nurses to act as instructors, supervisors, assistants or superintendents in training schools for nurses; as superintendents of small hospitals; and as public health nurses. The hope and aim of the School is to send out teachers and leaders, who, whether by helping to improve the methods and raise the standards of nursing education in Canada, or by doing efficient work in the varied fields of public health nursing, may alike serve the community as health workers.

"Superintendents, supervisors, instructors, and public health nurses should in all cases receive special additional training beyond the basic nursing course." (Conclusion 7, Report of the Committee on Nursing Education, Rockefeller Survey.)

## COURSES OFFERED IN THE SCHOOL FOR GRADUATE NURSES.

### A.—PUBLIC HEALTH NURSING.

This branch of nursing is developing all over Canada. The field of Public Health Nursing is ever widening, the interest of such work is beyond question, and the need of qualified workers is very great. In addition to visiting nursing, which is the oldest branch of this work, there are school nursing, infant welfare work, industrial nursing and social and mental hygiene work and many other activities, all concerned with the prevention of disease and the promotion of better standards of health.

The nursing education and experience given in the majority of training schools for nurses are not sufficient to meet these new demands. Public health nursing is largely preventive, social, and educational in character, while the training given is chiefly of a remedial nature.

Extract from Conclusion I of the Report of the Committee on Nursing Education, Rockefeller Survey:—"That as soon as may be practicable all agencies, public or private, employing public health nurses, should require as a pre-requisite for employment the basic hospital training, followed by a post-graduate course, including both class work and field work, in public health nursing."

#### PROGRAMME OF STUDY.

The following programme is planned to give a fundamental preparation for generalized or special forms of public health nursing:—

*Required:*—

Principles of Public Health Nursing.
Special Health Problems and Special Fields of Public Health Nursing.
Preventive Medicine.
Bacteriology.
Child Hygiene.
Elementary Psychology.
Principles of Teaching.
History of Nursing.
Elements of Social Science.
Social Case Work.
Field Work in Public Health Nursing.

*Electives:*—Social Psychology, Home Economics, Industrial History, Child Welfare, Physical Diagnosis, Control of Communicable Disease, Neuro-Psychiatry, Nutrition, Public Speaking.

### B.—TEACHING IN SCHOOLS OF NURSING.

The need of qualified instructors for Schools of Nursing is being very generally realized as the necessity for improved educational methods in the training of nurses becomes increasingly apparent. The demand for such instructors is still in excess of the supply.

PROGRAMME OF STUDY.

*Required:*—

Educational Psychology.
Elementary Psychology.
Principles of Teaching.
History of Education.
Teaching in Schools of Nursing.
Supervision in Schools of Nursing.
History of Nursing.
Preventive Medicine.

*Electives:*—Physics, Chemistry, Materia Medica, Nutrition, Anatomy and Physiology, Neuro-Psychiatry, Social Psychology, Introduction to the Study of Society, Bacteriology, Public Speaking.

### C.—ADMINISTRATION IN SCHOOLS OF NURSING.

This course is planned to prepare experienced women of superior qualifications for positions as superintendents in Schools of Nursing, or as superintendents of small hospitals.

PROGRAMME OF STUDY.

*Required:*—

Administration in Schools of Nursing.
Hospital Administration.
Current Problems in the Education of Nurses.
Supervision in Schools of Nursing.
Elementary Psychology.
Principles of Teaching.
History of Nursing.
Preventive Medicine.
Nutrition.

*Electives:*—Neuro-Psychiatry, Bacteriology, Home Economics, Introduction to the Study of Society, Control of Communicable Disease, Elements of Social Science, Public Speaking.

NOTE.—Students completing the requirements of both courses B and C are entitled to a certificate in Teaching and Administration in Schools of Nursing; or courses B and C, with electives, can be taken as a two-year course leading to a diploma in Teaching and Administration in Schools of Nursing.

## REQUIREMENTS FOR CERTIFICATES OR DIPLOMAS.

A certificate course requires fourteen hours weekly or the equivalent. (Two hours laboratory equals one hour lecture.)

Certificates are awarded to students who obtain an average mark of 50 per cent. in all examinations and not less than 40 per cent. in any one written examination.

In the case of students who do field work, satisfactory reports must also be received from the agencies with which their field work has been taken.

The diploma of the School for Graduate Nurses is awarded to students on the satisfactory completion of a two-year course in teaching and administration. (See Courses B and C.)

## EXAMINATIONS.

Examinations are held in some subjects at the end of the first term and final examinations are held in May. The School closes at the end of May.

## ADMISSION REQUIREMENTS.

Nurses desiring to enter for any course given in the School for Graduate Nurses must present:

1. (a) For the course in Public Health Nursing, evidence of having completed three years of High School work or of equivalent education; (b) For the Instructor's course, evidence of a complete High School education or of an equivalent which is adequate to the requirements of the University; (c) For the course in Administration, evidence of having completed three years of High School work or of equivalent education, and in addition, of having held satisfactorily, subsequent to graduation, for a reasonable period of time, a position which has demonstrated fitness for responsible executive work of this kind.

2. Evidence of the satisfactory completion of a course in a Nurses' Training School of approved standards connected with a hospital of at least fifty beds and covering a complete general training of at least two years. Nurses must be registered when coming from a State or Province where registration is in force, and must be eligible for membership in the Canadian National Association for Trained Nurses.

### MEDICAL CERTIFICATES.

As the work demands continued and concentrated effort, students must be in good physical condition, and must present a medical certificate to that effect.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the authorities.

Application for admission should be made during the spring and early summer, if possible. For application blanks and further information, write to the Director, School for Graduate Nurses, McGill University.

*Partial Students:*—Qualified nurses may register for certain courses, with the consent of the Director.

### REGISTRATION AND RESIDENCE.

Registration begins September 22nd, and the opening lecture will take place on October 1st. Nurses will consult the Director at the time of registration.

Addresses of boarding houses may be had from the Director.

## COURSES OF LECTURES.

**1. Supervision in Hospitals and Training Schools.**

Lectures, Conferences and Excursions:—Course designed for teachers and supervisors who require a general knowledge of organization and administration in hospitals and training schools. It deals with the relation of departments to each other, and with the ordinary problems of training student nurses, and the preparation of ward records and reports.

Two hours, 1st term.....Miss Shaw and Miss Samuel.

**2. Hospital Administration.**

A.—Lectures and Observations:—The particular problems of hospital administration and housekeeping, the furnishing and equipment of wards and other departments; organization of service in each; duties, salaries and conditions of life and work; province and duties of heads of kitchens, laundries, linen and supply rooms, and the handling of goods, linen, household and surgical supplies.

One hour and a half, 2nd term.....Dr. Haywood.

B.—Round Table Conferences.

Half hour, 2nd term.....Miss Shaw.

**3. Administration in Schools of Nursing.**

A.—Lectures and Conferences:—This course deals with the problems of training school organization and management; the qualifications, personality, and training of superintendent or principal; her responsibilities; the arrangement, control, and supervision of practical work, in wards or other hospital departments; the direction of assistants and ward staff.

Two hours.....Miss Shaw and Miss Samuel.

B.—Excursions and Field Work.

Two hours, 2nd term.....

**4. Teaching in Schools of Nursing.**

A.—Lectures and Conferences:—This course deals primarily with the curriculum of the nursing school, outlining the aims to be achieved through the course of study, the selection and arrangement of subjects in the curriculum, the general content of each, the special methods of teaching suitable in the various subjects, the selection and use of text and reference books, and other teaching materials.

Two hours.....Miss Shaw.

B.—Observation and Practice Teaching.

One hour, 2nd term.....

**5. Current Problems in the Education of Nurses.**

Lectures, Readings:—This course deals with special problems in nursing education. Questions of standardization, health and social aspects of student life, affiliations, etc., are considered.

One hour, 2nd term.....Miss Shaw.

**6. Principles of Public Health Nursing.**

(a) Lectures, Recitations. (b) Excursions and Conferences:—Intended to give a general grasp of the nursing problems to be met with in private families; the measures to be followed to relieve immediate needs; and to teach hygiene, preventive methods, and the handling in the home of acute, chronic, or communicable disease. The organization and supervision of the various types of public health nursing are also considered.

Two hours.....Lecturer to be appointed.

**7. History of Public Health Nursing.**

One hour, 2nd term.....

**8. Special Health Problems and Special Fields of Public Health Nursing.**

School nursing, pre-natal, maternity, industrial, and other special types of public health work are considered.

One hour.....Special lecturers.

**9. History of Nursing.**

A.—Illustrated Lectures, Reading:—Deals with the origin and historical development of nursing under monastic, military and secular control—Florence Nightingale, her successors.

One hour, 1st term.....Miss Shaw.

B.—Lectures and Recitations.

Modern nursing in various countries—nursing organizations— registration—state regulation.

One hour, 2nd term.....Miss Shaw.

**10. Materia Medica.**

Lectures and Demonstrations:—This course includes a discussion of drugs, their sources, crude forms, and preparation, with laboratory demonstrations; proper methods of administration, with physiological, therapeutic and toxic action.

One hour, 2nd term.....Prof. Stehle.

**11. General Anatomy and Physiology.**

Lectures and Laboratory Work in order to give the student a clear conception of the human body as a *living mechanism,* in which the function and structure are inseparably related, and in which the activities of all parts are intimately co-ordinated, the anatomy and physiology of the various organs and systems are considered together.

The purpose of the Course is the preparation for teaching these subjects in Schools of Nursing.

Three hours.....Prof. Simpson and Dr. Jackson.

**12. Nutrition and Cookery.**

Lectures, Recitations and Demonstrations—elements of nutrition and dietetics:—This course describes the essentials of an adequate diet, and the nutritive properties of common food materials. The application of such knowledge to the feeding of individuals and family groups is discussed, with special reference to limitations of cost.

One hour.....Miss Perry.

**13. Preventive Medicine.**

Lectures and Demonstrations:—The course deals with—

(a) The relation to health of air, water, food, clothing, skin, hair, mouth, etc.
(b) Personal Hygiene.
(c) Public and School Hygiene.
(d) Vital Statistics.

Two hours.....Dr. Starkey.

**14. Bacteriology.**

Classes and laboratory work:—The study of the more common pathogenic organisms. Use of microscope, moulds, yeasts, bacteria, media, bacteria and diseases, bacteriology of milk and water; defences of the body against pathogenic bacteria; applications of bacteriology.

Three hours.....Dr. Macdonald and Dr. Jones.

**15. Child Hygiene.**

Principles of pre-natal care; prevention of blindness; importance of breast feeding; infant welfare clinics; the pre-school age child; detection of physical defects; oral hygiene; child welfare and health centre work.

One hour, 1st term.....Dr. Chandler.

**16. Control of Communicable Disease.**

Lectures, Clinics and Excursions:—The course deals with methods of applying modern scientific medical knowledge in the prevention of

disease. It considers the causes of prevalent communicable disease, such as tuberculosis, typhoid fever, scarlet fever, diphtheria, and the venereal diseases; measures for prevention and methods of control and care.

One hour.....Dr. Byers, Dr. Cushing, and other lecturers.

**17. Neuro-Psychiatry and Mental Hygiene.**

Definitions of fallacious sense perceptions, such as hallucinations, illusions, delusions, different types of mental diseases, symptoms, causes and treatment of; mental deficiency; epilepsy; differential diagnosis of organic and functional nervous diseases; juvenile delinquency; the psychopathic personality; relation of psychiatry to industry; relation of social work to psychiatry; history and case record making.

One hour, 1st term.....Dr. Mundie.

**18. Principles of Teaching.**

The aims of education for the individual, society, nursing schools; when and how do pupils really learn?; education as habit formation; the training of memory; how can we test the progress of learning?; how do pupils get hold of new ideas?; how can we get our pupils to pay attention?; how can we get vivid impressions on our pupils' minds?; the fine art of questioning; how to make a lesson plan; types of teaching; what part can other pupils play in teaching?

Two hours, 2nd term.....Dr. Best.

**19. History of Education.**

The purpose of the course is to present the essential features of the educational thought of the past as this has been shaped by economic, social, political and religious causes.

One hour, 1st term.....Dr. Best.

**20. Public Speaking.**

Lectures, debates, etc.

One hour, 2nd term.....Miss Dowdney.

**21. Elements of Social Science.**

Lectures and prescribed reading.

One hour.....Associate Professor Dawson.

**22. Field Work in Public Health Nursing.**

Excursions, Observations and Practice Work:—This work is arranged with various health organizations as follows:—

(a) Hospital social service, in the Social Service Department of the Royal Victoria Hospital, Montreal General Hospital, Children's Memorial Hospital, and Western Hospital.

(b) School nursing with the city school nurses, by courtesy of the Department of Health.
(c) Child welfare work with the settlements, baby welfare stations, dispensaries, etc.
Four hours.....

**23. Visiting Nursing with the Local Branch of the Victorian Order of Nurses.**

One month on completion of academic year. Credit for field work allowed in certain cases.

For this work it will be necessary for each student to provide herself with a wash dress, long coat, and plain hat.

## COURSES GIVEN IN THE FACULTY OF ARTS.

**Introduction to the Study of Society.**

Human nature; society and the group; isolation and contact; the nature and effects of communication; social forces; competition and the location of the individual in the community; war, racial and cultural conflicts; social control; collective behaviour; social progress.

Three hours.....Assistant Professor Dawson.

**Elementary Psychology.**

Lectures, Recitations and Exercises.
Three hours.....Associate Professor Tait.

**Social Psychology.**

Lectures, Prescribed Readings and Reports.
Three hours.....

**Educational Psychology.**

Three hours.....Associate Professor Tait.

## COURSES GIVEN IN THE SCHOOL OF PHYSICAL EDUCATION.

**Psychology.**

A brief outline of general psychology with special reference to relation between mind and body, and some of the more important principles of educational psychology.

One hour.....

**Physical Diagnosis.**

Lectures and practical demonstrations in the methods of examination for defects of posture and development, especially of the spine and

thorax. Description of the deformities due to disease. Tests for sight, hearing, nasal obstruction. Examinations for dental defects, enlarged tonsils and adenoids.

One hour, 2nd term.....Dr. Harvey.

**Chemistry. Lectures and Demonstrations.**

One hour.....Dr. MacLean.

## COURSES GIVEN IN THE SCHOOL FOR SOCIAL WORKERS.

**Industrial History.**

History of the guild, domestic and factory systems; the agricultural and industrial revolutions; modern industrial conditions; history of trade unionism; state socialism, syndicalism and guild socialism; recent developments.

One hour.....Associate Professor Hemmeon.

**Home Economics.**

Household management, the dietetic and caloric value of food; economy in buying; economical menus.

One hour, 2nd term.....Miss Philp.

**Social Case Work.**

Principles, objective and method of case work, with special emphasis on actual case studies; adequate knowledge as a basis for judgment and action in effecting individual adjustments; how obtained and applied; relief—its place in case work; the relation of case work to the community; records; the use and purpose of records; record making; forms; correspondence, etc.

Two hours.....Miss May Reid.

**Child Welfare.**

Influences necessary to the normal development of the child in its home, at school, at play and at work; the treatment of dependent, neglected, delinquent and defective children; the child of the unmarried mother; child-welfare legislation.

Two hours, 1st term.....Lecturers to be appointed.

# THE UNIVERSITY LIBRARY.

G. R. Lomer, M.A., Ph.D., Librarian.

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors, one Representative Fellow, appointed by Corporation; two representatives of the Faculty of Arts, elected by the Faculty; two representatives of the Faculty of Applied Science, one of whom (being a member of some special Science Library Committee will look after the interests of these libraries on the committee); one representative of each of the Faculties of Applied Science, Law, Medicine and Graduate Studies, elected by their respective Faculties; the Dean of the Faculty of Medicine (or the Secretary of the Faculty); the Honorary Librarian of the Medical Library; one representative of the Royal Victoria College, and four other members appointed by the Corporation.

The several libraries of the University now contain over 216,000 volumes and 31,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 1,100 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the Library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakespeariana, the Redpath Historical Collection, and the Collection of Canadiana. The nucleus of the latter is formed by the choice library of the late Mr. Frederick Griffin, which he bequeathed to the University about forty years ago. It has been growing ever since, and includes, at the present time, besides numerous manuscripts, an interesting collection of Canadian portraits and autographs, recently increased by a gift from Mr. George Iles. The Canadiana have been further enriched by the recent gift of over 270 volumes and 50 pamphlets from the library of the late Mr. William McLennan, presented in memory of him by his children. The library now has an extensive collection of bookplates in process of being classified and mounted.

The Redpath Historical Collection was begun by the late Mr. Peter Redpath soon after he became a Governor of the University. It received substantial yearly additions from him up to the year of his death, after which it was steadily augmented by his widow during the remainder of her life. It is now large and valuable, and affords excellent opportunities for the study of history. Its most striking feature—a series

of political, religious and social tracts, for which the first selections were made by the late Professor Henry Morley—was greatly enriched by the late Mrs. Redpath and now comprises about 10,000 brochures, dating from 1600 A.D. to the end of the nineteenth century.

A special Architectural collection, known as the "Blackader Library of Architecture," has been establisted in honour of Captain Gordon Home Blackader, B.Arch. (McGill), who was wounded near Ypres on June 2nd, 1916, and died in London on August 20th of the same year.

"The Emma Shearer Wood Library of Ornithology" was presented by Colonel Casey A. Wood, M.D., as a special research collection and reference library rich in periodical and pamphlet materials, for use by all who are interested in birds.

"The Blacker Library of Zoology" is being presented by Robert Roe Blacker and Nellie Canfield Blacker as a comprehensive reference library on this special subject. In addition to standard works it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals.

These three collections are now housed in the recently completed addition to the library and are provided in each case with a reading-room adjacent to the new steel stacks which are devoted to these special libraries.

The Barnes Collection of books on Physics is shelved with the Departmental Library in the Physics Building. The School of Commerce, the School for Graduate Nurses and the Department of Social Service are beginning to make collections of books on their special subjects.

Founded in 1900, as a memorial to the late Mr. Hugh McLennan from his children, the Travelling Libraries of McGill University were endowed in 1911 by their founders. These libraries contain, each, from thirty to forty carefully selected volumes; and are sent, on application, and on payment of a nominal fee of $4.00, to schools, to country libraries, to reading clubs, and to small communities which possess no public library. Pictures, lantern slides and lectures are also supplied by this department. Regulations and full particulars may be obtained from the Librarian of the University. Provision has also been made to supply books by mail to graduates of the affiliated theological colleges and to ministers who have not the advantage of local libraries.

Although the Library is maintained primarily for members of the University, the Corporation has provided for admission, upon certain conditions, of such persons as may be approved by the Library Committee. It is the desire of the Committee to make the Library as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

The Library serves also as a general reference library for Montreal and has been of service in this capacity to institutions, learned societies, business houses, railways, corporations, and industrial societies. It also

has a system of inter-library loans by which it sends books to other libraries and obtains for the teaching staff works not available here.

With the Library are affiliated the McGill College Book Club and the University Book Club, which supply their readers with standard, important and recent publications and make a substantial annual contribution of books to the Library.

## EXTRACTS FROM THE LIBRARY REGULATIONS.

1. The University Library is closed on Sundays, and on certain other days. With a few exceptions, which are posted in the Library at the appropriate time, it is open as follows:—

(a) During the session, from 9 a.m. till 6 p.m. and from 7 till 10 p.m. On Saturdays from 9 a.m. till 5 p.m.

(b) During vacation, from 9 a.m. till 5 p.m. On Saturdays, from 9 a.m. till 1 p.m., except during July and August, when the Library is closed on Saturdays.

2. Students in the Faculties of Arts, Law, and Applied Science are entitled to read in the Library, and may borrow books (subject to the regulations) to the number of three volumes at one time.

3. Students in the Faculty of Medicine, who have paid the Library fee to the Bursar, may also read in the University Library, and on depositing the sum of $5, may borrow books on the same conditions as students in other faculties.

4. Graduates in any of the faculties, on making a deposit of $5, are entitled to the use of the Library, subject to the same rules and conditions as students in Arts, Law or Applied Science.

5. Books may be taken from the Library only after they have been charged at the delivery desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

6. Books shelved in the reading-rooms or seminary-rooms must not be taken from the rooms to which they have been assigned; and, after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

7. Before leaving the Library, readers must return to the attendant at the delivery desk books which they have drawn from the stack for use in the reading-room.

8. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

9. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any persons found guilty of wilfully damaging any book in any way shall be excluded from the

Library and shall be debarred from the use thereof for such time as the Library Committee may determine.

10. Damage to or loss of any books, maps, or plates, and injury of library fixtures, must be made good to the satisfaction of the Librarian and the Library Committee.

Damage, loss or injury, when the responsibility cannot be traced, will be made good out of the caution money deposited by the students with the Bursar.

11. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card, and requested to return the book. If the time has not been extended, or the book returned, after a further delay of at most three days, the book may be sent for by special messenger, at the borrower's expense, or may be replaced, and paid for, in the case of a student, out of the caution monies of such student; in the case of graduates or other borrowers, out of their library deposits. A fine of five cents for ordinary books and of twenty-five cents for reference books is imposed for each day that a book is overdue.

12. Before the close of each session, students must return uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

13. Silence must be strictly observed in the Library.

14. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

## LIBRARY FEES.

The Library fee for undergraduate students in the Faculties of Arts, Applied Science and Law is included in the University fees. The fee for partial students is $4.00. Graduate, extension course students, and medical students using the University Library must make a deposit of $5.00 at the Bursar's Office. The fees for members of the McGill College Book Club and the University Book Club are payable to their respective treasurers. Individuals not belonging to any of the above groups may use the Reading Room without charge, but should apply to the Library Committee, through the Librarian, for permission to take books from the building.

# MACDONALD COLLEGE.

## FOUNDATION AND PURPOSE.

Macdonald College, which is incorporated with McGill University, was founded, erected, equipped and endowed by the late Sir William C. Macdonald for the following among other purposes:—

(1) The advancement of education; the carrying on of research work and investigation and the dissemination of knowledge; all with particular regard to the interests and needs of the population in rural districts.

(2) To provide suitable and effective training for teachers, and especially for those whose work will directly affect education in schools in rural districts.

## SITUATION AND EXTENT.

The College occupies a beautiful site, overlooking the Ottawa River at Ste. Anne de Bellevue, P.Q., twenty miles west of Montreal. The main lines of the Grand Trunk and the Canadian Pacific railways pass through the property, and the stations of both railways are within its boundaries.

The College property comprises 786 acres, and has been arranged into four main areas, viz.: (1) the campus, with lawn, school garden, and recreation fields for men and women; (2) experimental grounds, with plots for illustration and research in grains, grasses, and other farm crops; (3) the horticultural and poultry departments; and (4) the stock farm.

## THE GENERAL ORGANIZATION.

The College is divided into three schools:—

(1) **The School of Agriculture,** which aims to provide a theoretical and practical training in the several branches of agriculture.

(2) **The School for Teachers,** which offers a comprehensive and thoroughly practical training in the art and science of teaching.

(3) **The School of Household Science**, in which young women receive training which will make for the improvement and greater enjoyment of home life and instructs them in professional work in household and institute superintendence and management.

## ENTRANCE REQUIREMENTS.

*School of Agriculture.*

See pages 61 and 62 to 74.

*School for Teachers.*

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Public Instruction for the Province of Quebec will be admitted under conditions prescribed by that body, particulars concerning which are given in detail in the Announcement of Macdonald College.

*School of Household Science.*

All candidates for admission:—

1. (a) To the homemaker course, must have entered their eighteenth year and completed grade VII. of the Province of Quebec, or its equivalent.

   (b) To the institution administration course, must have entered their twenty-first year, completed grade XI. (school leaving) of the Province of Quebec, or its equivalent, and have had some previous experience in housekeeping (*e.g.*, assisting with the housekeeping in their own homes).

   (c) To the short courses, must have entered their eighteenth year, be able to read and write the English language acceptably and be proficient in the use of elementary mathematics.

2. Must produce satisfactory evidence as to moral character; also medical certificate of health, including successful vaccination within the six years preceding date of entrance.

| | Tuition per Session | Laboratory Fee | Caution Money Deposit | 4 Weeks' Board in Adv. (a) | Medical Fee | Laundry Fee | Student Activities | TOTAL |
|---|---|---|---|---|---|---|---|---|
| SCHOOL OF AGRICULTURE:— | | | | | | | | |
| *Winter Course and First and Second Years:* | | | | | | | | |
| Sons, daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces | Free | (b) $ 5.00<br>(c) 10.00 | $5.00 | $28.00 | $4.00 | ..... | $<br>8.00 (b)<br>9.50(c), (d) | $ 50.00 (b)<br>56.50 (c) |
| Other residents of Canada | $ 50.00 | 10.00 | 5.00 | 28.00 | 4.00 | ..... | 9.50 (d) | 106.50 |
| Students from outside of Canada | 100.00 | 10.00 | 5.00 | 28.00 | 4.00 | ..... | 9.50 (d) | 156.50 |
| *Third and Fourth Years:* | | | | | | | | |
| Sons, daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces | 50.00 | 15.00 | 5.00 | 28.00 | 4.00 | ..... | 9.50 (d) | 111.50 |
| Other residents of Canada | 50.00 | 15.00 | 5.00 | 28.00 | 4.00 | ..... | 9.50 (d) | 111.50 |
| Students from outside of Canada | 100.00 | 15.00 | 5.00 | 28.00 | 4.00 | ..... | 9.50 (d) | 161.50 |
| SCHOOL FOR TEACHERS:— | | | | | | | | |
| *Intermediate and Kindergarten Classes* | Free | 5.00 | 5.00 | 28.00 | 4.00 | $1.00 | 5.25 (e) | 48.25 |
| *Elementary Classes* | Free | 2.50 | 5.00 | 28.00 | 3.00 | 1.00 | (f) | 39.50(h) |
| SCHOOL OF HOUSEHOLD SCIENCE:— | | | | | | | | |
| *B.H.S. Degree Course:* | | | | | | | | |
| Residents of Canada | 100.00 | 15.00 | 5.00 | 28.00 | 4.00 | 1.00 | 5.25 | 158.25 |
| Students from outside of Canada | 125.00 | 15.00 | 5.00 | 28.00 | 4.00 | 1.00 | 5.25 | 183.25 |
| *Institution Administration and Homemaker Courses:* | | | | | | | | |
| Daughters, etc., of farmers of the Province of Quebec | Free | 10.00 | 5.00 | 28.00 | 4.00 | 1.00 | 5.25 | 53.25 |
| Other residents of Canada | 100.00 | 10.00 | 5.00 | 28.00 | 4.00 | 1.00 | 5.25 | 153.25 |
| Students from outside of Canada | 125.00 | 10.00 | 5.00 | 28.00 | 4.00 | 1.00 | 5.25 | 178.25 |
| *Short Courses (per course):* | | | | | | | | |
| Daughters, etc., of farmers of the Province of Quebec | Free | 5.00 | 5.00 | 28.00 | 3.00 | 1.00 | (g) | 42.00 (h) |
| Other residents of Canada | 35.00 | 5.00 | 5.00 | 28.00 | 3.00 | 1.00 | (g) | 77.00 (h) |
| Students from outside of Canada | 50.00 | 5.00 | 5.00 | 28.00 | 3.00 | 1.00 | (g) | 92.00 (h) |

(a) Occupants of single rooms are charged $1.50 extra per week. Students in agriculture from the Province of Quebec receive a grant from the Provincial Government of $7.00 per month of attendance on account of board. See page 514.
(b) Winter Course.
(c) First and second years.
(d) Women students in the School of Agriculture pay the same for student activities as the School for Teachers intermediate class.
(e) Men students of the School for Teachers intermediate class pay the same for student activities as men students of the School of Agriculture.
(f) Students of the elementary class pay for student activities—first term: men, $3.25; women, $1.50. Second term: men, $4.00; women, $2.25.
(g) Short course students pay for student activities—autumn and spring courses, 75c.; winter course, $1.50.
(h) Student activities to be added to this total.

### THE B.S.A. DEGREE.

Students who shall have completed the regular course of study in Agriculture, as laid down in the Announcement of the College, shall have passed the prescribed examinations for graduation, and shall have performed such exercises as may be prescribed to that end—the whole to the satisfaction of the Faculty of Agriculture—shall be entitled to the degree of Bachelor of Science in Agriculture, and the degree, when abbreviated, shall be designated by the letters B.S.A.

Post-graduate work may be taken at Macdonald College. The degrees offered are M.S.A., M.Sc., Ph.D. These courses are set forth in the Announcement of the Faculty of Graduate Studies and Research.

### DEGREE IN HOUSEHOLD SCIENCE.

Students who shall have completed the regular course of study of the first two years in the Faculty of Arts, and shall have passed the prescribed examinations during the course, and thereafter shall have completed a special course of study for two years at Macdonald College, shall have passed the prescribed examinations during the said course and also the special examinations for graduation; and shall have performed such exercises as may be appointed to that end, the whole to the satisfaction of the Teaching Staff of Macdonald College, and also of any other examiners whom the Corporation may associate with the said staff, shall be entitled to the Degree of Bachelor of Household Science.

### PROVINCIAL GOVERNMENT GRANTS TO STUDENTS FROM THE PROVINCE OF QUEBEC.

(1) *School of Agriculture.*

The Department of Agriculture of the Province of Quebec grants to each student who belongs to the Province of Quebec $7.00 per month of attendance employed in studying according to the time-tables in the School of Agriculture, Macdonald College. This amount will be placed to the credit of such students by the College Bursar and will be applied on account of board and lodging.

(2) *School of Household Science.*

The Provincial Government grants bursaries of $20.00 to $50.00 each to Quebec students from the farming community in the junior and senior years of the School of Household Science.

### COLLEGE ANNOUNCEMENT.

Full details as to the courses, etc., will be found in the Announcement of Macdonald College, which will be sent on application to the Principal, Macdonald College, Que.

# THE UNIVERSITY BUILDINGS.

## THE CENTRE BUILDING.

This is the oldest building of the group. It contains the lecture rooms of the Faculties of Arts and Law and the offices of the administration.

## THE CONSERVATORIUM OF MUSIC.

The Conservatorium of Music is situated at the corner of University and Sherbrooke Streets, adjoining the University grounds. On the ground floor are the offices of the Director and of the Secretary, the library and a concert hall where recitals by the staff and students are given during the session and where orchestral and choral practices are held (the more important concerts take place in the large assembly hall of the Royal Victoria College). The second and third floors contain a number of studios, where lessons are given by the various members of the staff, as well as a room for lectures in theory and history of music, sight-singing, etc. In the basement are several practice rooms.

## THE CENTRAL MEDICAL BUILDING.

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 35,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museum of Pathology and Anatomy. The Faculty of Dentistry is also in this Building.

The new Library rooms for the reception of the Osler Library are now complete and await its arrival.

The Department of Anatomy, with its commodious laboratories, its Dissecting Room with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

## THE BIOLOGICAL BUILDING.

Completed in 1922 at a cost of over $500,000, this edifice was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184′ x 36′—houses on each of

its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these Departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

The Department of Botany, in addition to its laboratories, has three glass houses—60′ x 18′—adjacent to the Building, and provides living material for the work in General Biology and General Physiology.

The Department of Physiology, with its large and well-equipped teaching laboratories, each accommodating 96 students, is provided not only with motor-driven recording drums for each pair of students, but has also 16 fixed tables equipped with all the necessary apparatus for practical experiments in Physiology which each student must undertake for himself. Other rooms provide for advanced practical instruction and research. This Department is admirably equipped with an excellent workshop, animal quarters, operating and sterilizing rooms, string-galvanometer room, histology rooms, including dark rooms, and the usual space for demonstrations. The frog and turtle tanks are in the Basement, and a two-storey house for mammals is adjacent.

The Biochemical Laboratory on the Third Floor is of the most modern type, and has abundant accommodation for research workers. An extension of this floor is already being required to fulfil the needs of Physical Chemistry and the added interest of metabolic studies.

The Department of Pharmacology occupies the Top Floor, and is equally well-equipped.

## THE PATHOLOGICAL INSTITUTE.

The Pathological Institute, which houses the Departments of Pathology, Bacteriology and Medical Jurisprudence, has just been completed. This building, over 200 feet long and from 60 to 90 feet wide, faces the Royal Victoria Hospital, with which it is connected by a tunnel. It is of steel and stone construction in harmony with the architecture of the Royal Victoria Hospital and consists of a high basement containing mortuary for twelve bodies, shops, students' rooms, offices, and machinery rooms. The first floor is given over to Pathology and Medical Jurisprudence (autopsy theatre, lecture room, museum, demonstration rooms, several small laboratories, library and photography).

The second floor has the chemical, histological, experimental, animal and other research laboratories. The third floor is set apart for students' and research laboratories in Bacteriology. With the main building is connected by an archway a small cottage with living quarters for the technical help and for animal rooms. The building contains throughout all floors a refrigerating system (ammonia plant), hot and

cold water, live steam and air exhausts, and a special forced ventilating system. The large students' histology laboratory, accommodating 120 students, is built on a rising tier system of student benches, and the whole northeast wall is practically of thick glass.

### THE MACDONALD ENGINEERING BUILDING.

This building is designed to provide accommodation for six hundred students. The Departments of Civil Engineering and Architecture are permanently provided for, while the Departments of Electrical and Mechanical Engineering are given temporary accommodation until such time as independent buildings can be provided for the growing numbers in these departments. The ground floor is given up to the civil engineering, geodetic, electrical and mechanical engineering laboratories, and is for the most part 23 feet in height. Mechanical and electrical engineering laboratories and the workshops also occupy the three lower floors of the Workman Building. The centre portion of the second floor is used for purposes of administration (faculty rooms, offices, library, etc.). The front parts of the second and third floors are occupied by eight class rooms which contain 700 seats, while the upper floors, both of the Engineering Building and the Workman Building, are devoted to drafting rooms, containing over 500 tables. The building throughout is of the most approved fire-proof construction, not only in the matter of materials, but in arrangement as well, the several floors being divided by fire walls and fire doors into separate sections. It was erected in 1909 at a cost of about half a million dollars.

### THE MACDONALD CHEMISTRY AND MINING BUILDING.

In addition to the large lecture theatre, which seats about 250 students, there are four lecture rooms for smaller classes and a number of offices There are also three large general chemical laboratories (each with a floor space of about 2,400 square feet and accommodation for 200 students at a time), large laboratories for assaying, ore dressing and metallurgy, with a very complete equipment, and a number of smaller rooms and laboratories for special purposes, including research work. The reference library contains about 1,400 volumes.

### THE MACDONALD PHYSICS BUILDING.

This building is five storeys in height, each floor having an area of 8,000 square feet. Besides a lecture theatre and its apparatus rooms, the building includes an elementary laboratory nearly 60 feet square, large special laboratories, a range of rooms for optical work and photography, separate rooms for private work, and two large laboratories arranged for research, provided with solid piers and the usual standard instruments. There are also a lecture room for mathematical physics, a special physical library and convenient workshops.

### THE UNIVERSITY LIBRARY.

This building, which is a fine example of the Romanesque style of architecture, was erected in 1892 by Mr. Peter Redpath, a Governor of the University, and was enlarged in 1900 and again in 1922. The general reading room is 110 feet long, 44 wide and 34 high, and will seat 150 readers. The book stacks, four and five storeys in height, have a working capacity of 150,000 volumes.

### THE OBSERVATORY.

The Observatory is equipped for instruction in the use of meteorological instruments and in astronomical work. It is the Montreal station of the Meteorological Service of Canada. Time signals are given to the city, the railways and to the shipping.

### THE POWER STATION.

The new Power Station supplies heat to the following buildings: New Medical Building, Old Medical Building, Engineering and Workman Buildings, Chemistry and Mining Buildings, the Physics Building and the Arts Building. It also furnishes current for light and power to these buildings and to the Royal Victoria College, the Union and Strathcona Hall. The equipment of the station includes boilers of 1,000 H.P. nominal capacity, provision being made for future extension, and engines and generators of 600 kilowatt capacity. The coal bunkers hold 500 tons. The heating distribution is partly by tunnel and partly by underground conduit, the farthest building served being at a distance of 700 feet from the station. Electric cables are placed underground in vitrified clay conduits.

### THE REDPATH MUSEUM.

The Museum occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collection, it contains a large lecture theatre, class rooms and work rooms. The collections in botany, palæontology, geology and zoology are fully and admirably arranged for teaching purposes.

### THE ROYAL VICTORIA COLLEGE.

This is a residential college for the women students of McGill University. It is situated on Sherbrooke Street, in close proximity to the University buildings and laboratories. On the ground floor are the offices of the administration, lecture rooms, students' common room, and a spacious dining hall. A gymnasium is fitted up in the basement. On the first floor are other lecture rooms, the library, reading room

and a handsome assembly hall. The second and third floors are given up entirely to rooms for resident students. These rooms are handsomely furnished, as indeed is the whole building.

### STRATHCONA HALL.

Strathcona Hall is the home of the Student Christian Association of the University. The building is 55 feet by 110 feet, and is five storeys in height. The three upper storeys are arranged to afford residential accommodation for about sixty students. On the ground floor are the secretary's office, sitting rooms, cloak rooms and a hall capable of seating 350 persons. The second floor contains a large reading room, a large game room, and five small rooms for the use of clubs and societies.

### THE UNION.

The McGill Union stands at the corner of Sherbrooke and Victoria Streets, within two minutes' walk of the College gates. The building measures 93 feet by 71 feet and consists of three storeys and a basement. On the main floor are the dining and luncheon rooms; on the second floor, billiard rooms, a news hall, a reading room and a library, a study and a lounging gallery (88 ft. by 21 ft.). The large hall is situated in the top storey. It measures 88 ft. by 45 ft. and has a seating capacity of 400. There are also smaller rooms for society meetings, etc. In the basement are baths, locker rooms and an exercise room (24 ft. by 38 ft.). The Union is the social centre of the University, the common meeting ground for students of all faculties. It is intended to promote a broad and true university spirit.

### THE FIELD HOUSE.

The Field House, a concrete structure at the west end of the Molson Memorial Stadium, provides for training quarters, team dressing rooms, lockers, store rooms, rubbing rooms and showers. Plans are prepared for further extensions if required.

# LABORATORIES, MUSEUMS AND WORKSHOPS.

## 1. LABORATORIES.

### BOTANICAL LABORATORIES.

The Department of Botany is housed on the first and ground floors of the newly-constructed Biological Building. The large and well-lighted elementary laboratory will afford ample accommodation for large classes. There are, in addition, smaller laboratories for Phanerogamic and Cryptogamic Botany, special rooms for preparation, sterilization, chemistry and photography and research accommodation. Opening out of the large laboratory is a small conservatory for the culture and preservation of demonstration material. A room is also set apart as a departmental laboratory, reading room and demonstration museum.

The practical work in plant physiology, genetics, etc., is done in a special large physiological laboratory (20 ft. by 75 ft.), and three adjoining glass houses, each 60 feet long and 18 feet wide, with the exception of a section of the central house which is 25 feet square.

### CEMENT LABORATORIES.

The laboratory is equipped for making complete tests on the strength and properties of cements, mortars, concrete, concrete beams, etc., and includes the following:—Tensile testing machines, hydraulic compression machine (50 ton), specific gravity apparatus, sieves for fineness tests, steaming apparatus, Vicat's and Gilmore's needles, metal moulds, mixers, rammers, balances, etc. Tanks are provided for the storage of briquettes and other test specimens, and the equipment is supplemented by that of the Strength of Materials Laboratory in making tests on large sized specimens.

### CHEMICAL LABORATORIES.

*(In the Chemistry and Mining Building.)*

Each of the three principal laboratories has a floor-space of about 2,400 square feet, and together they provide accommodation for nearly two hundred students working at a time. They are lighted on three sides, have special ventilation, and have ample hood space. Laboratory A is planned for beginners, and the other two for more advanced work; B for quantitative analysis, and C for organic preparation and qualitative analysis. In connection with each of the main laboratories is a balance-room equipped with balances by several of the best makers and an instruction room.

Physical chemistry is provided for in a special laboratory, nearly 30 by 40 feet, supplied with electricity, steam, vacuum pumps, etc. The equipment of this laboratory consists of the apparatus necessary for all

requisite experiments in physical chemistry, determination of the specific gravities of solutions, of the depression of freezing point, of the rise of boiling point, and of densities of gases and vapours. There are constant-temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electromotive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effect produced in chemical reactions. On the same floor there is an optical room, devoted more particularly to crystallographic work and furnished with goniometers, polarising microscopes, axial-angle apparatus, refractometers, etc.

Immediately adjoining the laboratory of physical chemistry is the photographic department, supplied with two dark rooms, provided with the necessary appliances for all ordinary photograhic work.

The laboratory for gas analysis is fitted with a large tank to contain water at the temperature of the room, for use in obtaining a constant temperature in the measurement of gases. The tables are arranged for work with mercury and the laboratory is supplied with the apparatus of Hempel, Dittmar, Arsat, Elliott and others.

The laboratory for electrolytic analysis is supplied with accumulators, thermopiles, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The organic department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room.

The laboratory for industrial chemistry is especially ventilated and fireproofed. Here operations on a semi-commercial scale may be conducted involving the use of explosive and other dangerous chemicals.

The Chemistry Building is well supplied with small research laboratories for graduate and other research students.

### ELECTRICAL LABORATORIES.

*The Main Laboratory* is equipped primarily for the study of alternating current phenomena and is equipped with motor-driven alternators of various types, giving a range frequency of from 25 to 360 cycles per sec.; single and polyphase induction motors of the squirrel cage and wound rotor types; single phase series and repulsion motors; constant voltage and constant current transformers; mercury arc rectifier; rotary converters; potential regulators; meters for the measurement of current, voltage, power, frequency, power factor, maximum demand

meters, and wave form; relays, rheostats, circuit breakers, static condensers, reactance coils, synchroscopes and other auxiliary apparatus. An electric travelling crane spans the laboratory and gives facilities for the rearrangement of the machines.

The above laboratory is also used by the Third Year electrical students for the study of current flow in circuits and of direct current machinery.

*The Electrical Laboratory* on the third floor of the Workman Building is used by the students of other departments who are taking an elementary electrical course, for the study of both direct and alternating current phenomena. The laboratory is equipped with shunt, compound and series wound direct current generators and motors of different types; constant current generators; arc and incandescent lamps; meters for the measurement of current, voltage and power; rheostats, circuit breakers, starters and other auxiliary apparatus. Several alternators, transformers, rotary converters and induction motors along with the necessary instruments and control apparatus are provided for use by the students taking the general elementary course. A hand-operated travelling crane gives facility for the rearrangement of the machines.

*The Standardizing Laboratory* is equipped for the accurate measurement of direct currents to 1,000 amperes and voltages to 1,500 and of alternating currents to 200 amperes and voltages to 1,500. By the use of standard instruments transformers, alternating currents to 5,000 amperes and voltages to any reasonable value may be accurately measured. The equipment includes Kelvin current and watt balancers; Weston laboratory standard ammeters, voltmeters and wattmeters; potentiometers; Wheatstone and conductivity bridges; galvanometers, standard resistances and cells and other special apparatus.

The power is obtained from two motor generator sets, from one of which direct current to 1,000 amperes may be obtained, and from the other alternating current may be obtained over a considerable range of frequency up to 1,500 amperes and at any phase relation to voltages up to 440.

*The High Voltage Laboratory* contains the following equipment: Four 200 to 50,000 volt transformers supplied with condenser bushings and insulated so as to operate up to 300,000 volts; one 200 to 2,000 volt insulating transformer; one 110 to 20,000 volt testing transformer; standard spark gaps for oil and air; cathode ray tubes, electrostatic voltmeters and other auxiliary equipment. The transformers are provided with auxiliary voltage coils for direct pressure measurement and for connection to the oscillograph. The connections to this laboratory are such that any machine in the department may be used as a source

of power and controlled directly from the transformer room, so that a wide range of frequency and of wave form is available for experimental work.

*The Photometer Laboratory* contains a Reichanstahlt type precision photometer bar with a wide range of certified standard incandescent lamps, hand operated and power driven universal rotators, motor driven sector disk and a complete set of screens, also a Matthew's integrating photometer for incandescent lamps. A Sharp Millar portable photometer and standardizing set is also installed, with a full range of controlling rheostats and instruments provided with permanent wiring.

*Oscillograph Laboratory.*—This is equipped with a Blondel triple oscillograph, with both visual and photographic attachments, and is specially adapted for the study of transient phenomena. The department maintains a small machine-shop for instrument and machine repair and for the construction of special experimental apparatus.

Power is supplied to the above laboratories from the 220-volt, 3-wire, D.C. generators in the central power-house. The voltage is maintained approximately constant on the two sides of the system by a balancer set located in the Fourth Year laboratory, which is also equipped for supplying constant voltage circuits of 125 volts.

## FOREST PRODUCTS LABORATORIES OF CANADA.

The Forest Products Laboratories of Canada, established by the Canadian Government in 1913, under the Forestry Branch, Department of the Interior, are associated with McGill University and are located at 700 University Street, Montreal. The chief functions of the Laboratories are research and technical service in connection with woods and the products manufactured or derived therefrom.

Four divisions for the conduct of technical research are at present in operation, namely those of Timber Tests, Timber Physics, Pulp and Paper and Wood Preservation. Additional divisions will be added as the work develops.

The Division of Timber Tests is engaged in the investigation of the mechanical properties of Canadian woods with the object of establishing authoritative data on their strength. The resulting figures are of value in the employment of woods for any of the numerous purposes in which strength is a factor. Some fifty thousand tests have been made to date and figures relating to the strength of most of the important commercial timbers of Canada are now available. The Division also conducts investigative work on the strength and design of wooden manufactured articles.

The work of the Division of Timber Physics includes the investigation of the physical properties of wood for correlation with mechanical

and other characteristics. Special attention is given to the study of microscopic anatomy as a knowledge of the minute structure of woods is the key to many problems encountered in their industrial use. The identification of woods is a feature of the work and extensive studies of the fibre length of various species have also been made. A reference collection of the commercial timbers of the world, in the form of sections mounted for the microscope, is in course of preparation.

The work on the pathology of woods consists largely in examination of timber in buildings and situations favouring its decay with a view to developing preventive measures. The deterioration of pulp-wood and wood-pulp in storage is also studied with a similar object. An extensive collection of specimens showing types of decay and deterioration has been brought together.

The Division of Pulp and Paper is engaged in the investigation of the paper-making possibilities of Canadian woods, the practical study of processes related to this field and research in fundamental problems of the chemistry of wood. A complete semi-commercial papermill has been installed for investigation on a large experimental scale. The chemical laboratory of the department is provided with complete equipment for experimental reseach in the chemistry of wood.

The Division of Wood Preservation is concerned with the investigation of methods of preservative treatment for the protection of timber against decay and insect destruction. The experimental laboratory of this division is provided with a complete wood preserving plant of small size in which railway ties and other products may be impregnated with preservatives under pressure. A chemical laboratory in this department is used for analysis of preservatives and examination of treated material.

The facilities of the Laboratories include also a small saw-mill, seasoning yard, wood-working shop, photographic department, exhibit room and a reference library devoted to the technology and utilization of woods.

### GEODETIC LABORATORY.

The equipment of this laboratory consists of:—

(1) Linear instruments: a Rogers comparator and a standard bar for investigating standards of length; a fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.; a Munro-Rogers linear dividing engine.

(2) Circular instruments: a Rogers circular comparator; four level triers.

(3) Time: an astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity: a portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidence by beats.

(5) A water gauge apparatus for testing aneroid barometers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

*Astronomical Observatory.*—The observatory equipment for the purpose of instruction in practical astronomy consists of: a Bamberg prismatic transit with zenith attachment; six astronomical transits for meridian observations; two Troughton & Simms zenith telescopes; two 8″ alt-azimuth instruments; sidereal and mean time clocks and chronometers, chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

## HIGHWAYS LABORATORY.

The Highways Laboratory is equipped for conducting physical and chemical tests of road building materials, such as asphalts, tars, brick, stone, gravel, sand, etc. Among the more important items of equipment are Deval and Dorry machines; a standard rattler; an impact testing machine for rock; a diamond drill, lap and saw for preparing rock specimens; balances and scales; asphalt ductility machines; penetrometer; screens and screen shaker; extraction apparatus; drying ovens (gas and electric); viscosimeters; flash point testers; specific gravity apparatus, and melting point apparatus. There is also a large assortment of chemical glassware, etc.

Facilities for advanced work are greatly increased by the fact that this laboratory is operated in close connection with the Strength of Materials laboratory.

## HYDRAULIC LABORATORY.

In this laboratory the student studies experimentally the laws governing the flow of liquids through orifices, pipes, weirs, etc., and carries out experiments on the efficiency of various forms of water motors running under different conditions as regards head and supply.

The equipment includes:—Apparatus for the measurement of the discharge of water from orifices, nozzles, weirs, etc., under varying conditions; arrangements for investigation of the loss of head by surface friction, and at curves and bends in pipes; Venturi meter for use at different discharges; a hydraulic ram working against different heads; various water motors, including Pelton wheel, Girard impulse turbine;

apparatus for measurement of pressure due to impact of jets on surfaces of different forms; gauge testing appliances; Hele Shaw's apparatus for study of the steam lines in a perfect fluid, illustrating the flow round obstructions in a channel, and numerous magnetic problems; numerous calibrated tanks, weighing appliances, and measuring apparatus in connection with the above.

### MECHANICAL ENGINEERING LABORATORIES.

These laboratories are used in connection with the courses in Mechanical Engineering subjects. The smaller apparatus belonging to the laboratories includes the necessary equipment of weighing machines, ordinary and water dynamometers, steam calorimeters, thermometers, gauges, pyrometers, coal, gas and oil calorimeters, indicators, planimeters, flue gas analysis, etc.

1. Mechanical Laboratory.

The equipment of this laboratory includes:—A Thurston railway pattern oil tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; standard viscosimeters and other necessary apparatus for the physical testing of lubricants; a high speed horizontal engine having a cylinder 6 inches diameter, 9 inches stroke, and operated by compressed air; a gas-fired preheater for the above engine; two standard 9½-inch Westinghouse airbrake pumps, fitted for testing and supplying compressed air for experimental and other purposes; a non-rotative Blake steam pump, having steam and water cyclinders 4½ and 2¾ inches diameter and 4½ inches stroke; apparatus for measuring the heat loss from pipe coverings and from radiators; on the efficiency of worm and other gearing, for governor testing; for testing fans and blowers.

2. Steam Engine Laboratory.

This laboratory is furnished with an experimental steam engine of 120 I.H.P., specially designed for investigating the behaviour of steam under varying conditions. The cylinders are 6½ inches, 9 inches, 13 inches and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a single, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel, or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to

measure the mechanical power developed. This laboratory also contains the following machinery:—A Robb automatic cut-off engine, having a cylinder 10½ inches in diameter by 12 inches stroke, which is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute; an automatic high-speed engine by Macintosh & Seymour, having a cylinder 12 inches in diameter by 12½ inches stroke, in connection with which there is an automatic recording apparatus for registering the load on the brake; a Leonard horizontal engine, having a cylinder 8 inches diameter by 9 inches stroke, specially fitted for instructional work in valve setting and provided with an independent surface condenser; a two stage air compressor (built in the workshops of the Department) taking 40 H.P. and having cylinders 10 inches and 17 inches in diameter, by 15 inches stroke (the compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired); a 15 K.W. Curtis steam turbo-generator with independent surface condenser, air pump, and a bank of lamps for varying the load; two 12 H.P. high-speed forced lubrication compound engines (built in the workshops of the Department), one of which is used to drive a Hall 1-ton $Co_2$ ice machine.

Steam is supplied to this laboratory by the boilers in the Workman Building. These consist of one 100 H.P. locomotive boiler, Belpaire type, fitted with Howden oil burning furnace, two Babcock & Wilcox water tube boilers, each 60 H.P. These boilers are fitted with the necessary tanks, weighing machines and apparatus for carrying out evaporative tests. For the study of superheated steam, one of the B. & W. boilers is fitted with a superheater built by the Superheater Co., and there is also a B. & W. separately fired superheater.

3. Gas Engine Laboratory.

This laboratory contains a horizontal gas engine by the National Gas Engine Company, having a cylinder 12 inches diameter by 20 inches stroke and developing 40 B.H.P.; a suction type producer for the above with the necessary scrubbers and gas cleaning apparatus; a 10 B.H.P. Otto type gas engine (built in the workshops of the Department), having a cylinder 8½ inches diameter by 12 inches stroke; a 14 B.H.P. 2-cylinder 2-cycle Grey gasoline engine; a 4 H.P. Blackstone oil engine, a Ford automobile engine, a 9 H.P. Victory (Hvid) oil engine, a 9 H.P. crude oil engine built by Vickers & Co.

METALLURGICAL AND ASSAYING LABORATORIES.

These consist of a large furnace room of 2,000 sq. feet, for metallurgical operations, a furnace room for assaying of 1,300 sq. feet, a balance room, small chemical laboratory, and parts of other rooms, which are utilized for pyrometric and photo-microscopic work. The

furnace room is fitted with a water-jacket blast-furnace, 21 inches inside diameter, for smelting lead and copper ores; also a hand reverberatory furnace for roasting ores, and a Bruckner roasting furnace.

In addition to this comparatively large scale plant, apparatus has been provided to enable the students to study in detail the more important metallurgical operations, using quantities of ore or metallurgical products of usually not more than a few pounds in weight.

For small-scale work are a number of crucible and muffle furnaces, heated by coke, gas oil, and electricity. Several small furnaces have been added for the course of instruction in dental metallurgy.

The electric furnace plant consists of a 50 H.P. motor and a 30 K.W. alternating current generator, together with transformers and measuring instruments. A number of electric furnaces have been installed for making steel, smelting ores, melting metals and making researches at high temperature. A low-voltage direct-current generator is employed for electrolytic operations, and an electrode rotator has been added for electrolysis on a small scale. An electric muffle furnace, having carbon resisters and a carborundum muffle, is in regular use for determining the melting temperature of refractory materials, measurements being made with an optical pyrometer and Seger cones. The furnace can be heated to 1800°C. A "surface combustion" gas furnace has also been added for testing refractory materials.

A Leeds and Northrup "hump" method electric furnace with recording pyrometer has been modified to give automatic time-temperature control and is now a most useful appliance for heat-treatment and pyrometric research.

For heat-treatment and fire-assaying there is also a large electric muffle furnace which will have an automatic temperature control.

An oxyacetylene cutting and welding outfit is in regular use and has proved both instructive and useful for repairs and new construction.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

A small drop-testing machine, a Sankey metal-bending tester, and Shore and Brinell Hardness testers have been installed for investigating the mechanical properties of metals.

The assaying laboratory is equipped with a number of muffle and crucible furnaces fired with coke, a large gas muffle furnace, several gas-fired crucible furnaces, a large oil-fired muffle furnace and the electric muffle furnace mentioned above.

Adjoining the assaying laboratory are the balance room and a small laboratory for chemical work.

One end of the assaying laboratory has been fitted up as a regular "works laboratory" in which students are trained in commercial metallurgical analysis.

The metallographic laboratory is well equipped with microscopes, including a standard works microscope with photographic attachment. It has also a dark room and two very satisfactory polishing machines for preparing metal specimens, which were built in the Department.

### MINING AND ORE-DRESSING LABORATORIES.

The Department of Mining Engineering has one large laboratory for ore-dressing, and a number of rooms of moderate size equipped for use as special laboratories, dark room, machine shop, etc. The effective floor space is about 8,500 square feet, in addition to which the departmental store rooms, ore bins, etc., have an area of 1,500 feet.

The ore-dressing laboratory proper is built in two storeys about a central well and has about 5,000 feet total floor space. The equipment comprises two classes of apparatus. First, a number of pieces specially designed for individual work on a small scale. Many of these are for elementary investigation and demonstrations of a theoretical nature, others are working reproductions on a reduced scale of typical ore-dressing machines. Second, standard apparatus for ore crushing, sampling, milling, concentrating and for coal washing. This apparatus has been chosen from the best designs in common use, and whenever possible each important class of ore-dressing machinery is represented by two or more different types, in order that comparisons may be made. Each machine is ordinarily used and tested independently, but, when expedient, a number of machines can be connected and thus complete plants of various kinds can be improvised, each of sufficient capacity to test considerable lots of material under approximately working conditions.

The chief pieces of apparatus in the main laboratory are rock-breakers of four kinds, Blake, Dodge, Gates, and Sturtevant; gravity stamp mills of 600 and 950 lbs. respectively and a small steam stamp for crushing and amalgamating; high speed steel-tyred rolls and a 3-foot Huntington mill for fine crushing; Sturtevant and Gates grinders for preparing samples, and ball mills, pebble mills and amalgamation pans for extremely fine grinding. Following these there are Bell, Jones and Brunton samplers; a Callow belt screen; a series of trommels and power shaking screens for sizing the crushed ores; an especially designed jig of two compartments with adjustable eccentric, cam and slide mechanisms, a pneumatic jig, a Richards pulsator jig, a Taylor vibrating jig and several small hand and power jigs for coarse and medium concentration; slime tables of several types, including a Frue vanner, Wifley and Butchart riffled tables; magnetic separators of three types, an

electrostatic separator, dry and wet coal washers, flotation apparatus of several different types for both continuous and intermittent operations; a pachuca agitator, cyanidation vats and agitators, a Dorr thickener, an Oliver filter with the necessary tanks, pumps, etc., and several smaller vacuum and pressure filters; plates, pans and barrels for amalgamating gold and silver ores; settling and feeding cones, and various other special pieces of ore-dressing apparatus.

An hydraulic lift and the necessary jet elevators, feeders, samplers, steam jacketed drying tables, etc., are provided for use in heavy continuous work. The power chiefly used is electricity, generated in the University power station and utilized through a number of independent motors aggregating 100 H.P., but steam is used for some pieces of apparatus and others may be driven by a Pelton wheel. A motor-driven vacuum pump and air-compressor of 7½ H.P. serves the fillers and provides an ample supply of compressed air. The Department is equipped with suitable apparatus for electrical measurements, and is thus able to make continuous and accurate determination of the amount of power used by each machine.

In addition to the main laboratory, there are excellent facilities for advanced and research work—including a small but thoroughly equipped chemical and assay laboratory and a photographic room. The Department posseses a number of cameras, microscopes, recording gauges and indicators, a good equipment of weighing and measuring devices, and special apparatus for advanced theoretical investigation.

## THE PHYSICAL LABORATORIES.

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by students in practical work; (3) various types of important instruments for exact measurements, to be used in connection with special work and research.

The magnetic laboratory contains magnetic instruments and variometers of different patterns, and also a duplicate of the B.A. Electrodynamometer. The laboratory on the opposite side of the basement contains a Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones.

There is a constant temperature room, surrounded by double walls, which is fitted for comparator work.

The first floor contains the main electrical laboratory, which is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves around the walls. This room contains a large number of electrometers, galvanometers, potentiometers, and other testing instruments of various patterns, and adapted for

different uses. Three small research laboratories adjoin the electrical laboratory. A well equipped workshop serves for the construction of research apparatus and repair work.

On the second floor of the building there is the heat laboratory, devoted to advanced work in thermometry, pyrometry and calorimetry and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature. This adjoins a private laboratory fitted for research work.

The third floor contains two small lecture rooms, a library and reading room for the staff and professors' rooms.

The fourth floor contains the large elementary laboratory, a room 60 feet square, devoted to elementary practical work in heat, sound, light, electricity and magnetism. There is a demonstrators' room adjoining, and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is a spectroscopic room, containing a six-inch Rowland grating, with mountings by Brashear, and other large spectrometers and polarimeters; also a series of smaller optical rooms, including a photometric room, especially fitted for arc photometry, and a dark room for photographic work.

### STRENGTH OF MATERIALS LABORATORIES.

These laboratories are equipped with apparatus for the determination of the physical properties of the materials of construction and for illustrating the fundamental laws of the strength of materials. The equipment includes:—

(*a*) Riehle testing machine of 60,000 lbs. capacity, a Wicksteed 100-ton, a Wicksteed 50-ton, and an Emery 75-ton machine for testing the tensile, compressive and transverse strength of the several materials of construction. To the 100-ton Wicksteed has been added a specially designed arrangement, by which the transverse strength of girders and beams up to 26 ft. in length can be determined. Special holders have also been designed and made in the laboratory for investigating the tensile and shearing strength of timber, and for the testing of wire ropes, belts, etc. An Olsen machine of 10,000 lbs. capacity is used for testing wire.

(*b*) A Rondet-Schor Machine, with a capacity of 500 kilograms, for testing textile fabrics.

(*c*) A Torsion Machine with a specially designed angle measurer, by which the amount of the torsion can be measured with extreme accuracy.

(*d*) An accumulator, furnishing a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, and ensures a perfectly steady application of stress, an impossibility when any form

of pump is substituted for an accumulator. An automatic electric motor has been designed in the laboratory and constructed for the purpose of actuating the accumulator.

(*e*) A Blake and Worthington steam pump and an electric pump, designed to work against a pressure of 3,600 lbs. per square inch. The accumulator may be actuated by any of the pumps, and, if at any time it is necessary to do so, any of the pumps may be employed to actuate the testing machines direct. When in operation, the work of the pump and the accumulator is automatic.

(*f*) Extensometers of the Bovey, Ewing, Unwin, Martens, Marshall and other types.

(*g*) Portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the extensions, compressions and deflections of the specimens under stress in the testing machines.

(*h*) Various electric motors for working the several machines.

(*i*) A drying oven for beams up to 26 feet in length. The hot air in this oven is kept in circulation by means of a fan driven by an electric motor.

(*j*) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in single lbs. up to 2,500 lbs. per square inch. All of the testing machines are on the same pressure circuit, and are connected with the Emery gauge and also other standard gauges, including recording gauges. This arrangement provides a practically perfect means of checking the accuracy of the testing.

(*k*) Special apparatus and recording gauge for the testing of hose, etc.

(*l*) Dynamometers for measuring the strength of textile fabrics, the holding power of nails, etc.

(*m*) Apparatus for determining the elasticity of long wires.

(*n*) Apparatus for determining the hardness of materials of construction, including Shore scleroscope.

(*o*) Zeiss and other microscopes.

(*p*) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from .00001 lb. up to 125 lbs.

(*q*) Apparatus for the microscopic study of metals and for microscopic photography.

(*r*) Micrometers of all kinds, including a 10-inch Howard gauge, and Berry strain gauges.

(*s*) A transverse bending machine which is adapted for loads up to 3,000 lbs. and for beams to 10 ft. span, and a testing machine for applying bending and torsion simultaneously.

## PETROGRAPHICAL LABORATORIES.

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining Building. It is provided with a a number of petrographical microscopes by Bausch and Lomb, Siebert, Grouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and petrographical investigation, Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

## THE PSYCHOLOGICAL LABORATORY.

The psychological laboratory occupies two rooms in the Arts Building. It contains apparatus for the study and investigation of sensation, perception, ideas, memory, association, attention, volition, feelings, emotions and reaction. This equipment serves three purposes: First, it is adapted to research work in the various fields of experimental psychology, including physiological psychology, educational psychology, and applied psychology. Second, it is used to acquaint beginners with the methods of experimental psychology, both qualitative and quantitative. Third, it furnishes material for experimental demonstration in the elementary and advanced lecture courses.

## THE ZOOLOGICAL LABORATORIES.

The zoological laboratories are situated in the new Biological Building, where ample provision is made for the accommodation of all classes.

The equipment includes microscopes and microtomes and accessories of different models for various requirements; fresh water aquaria, preparations, charts and materials for research. Specimens exhibited in the Peter Redpath Museum are available for study and illustration.

Arrangements can be made with the Biological Board of Canada for qualified students to take up some branch of original work at the Atlantic Biological Station, St. Andrews, N.B., during the summer months and to complete the investigation here during the session.

## 2. MUSEUMS.

### ARCHITECTURAL MUSEUM.

The Museum of the Department of Architecture contains a representative collection of historic casts illustrating the development of architectural ornament and form, and the technique of architectural material. Many of the casts have been specially prepared for the Department. The group of English mediæval art is unique in any University on this continent. The collection of metal work includes examples of iron, brass, copper and jewellery, and is arranged so as to exhibit the technical possibilities of the material.

### THE MCCORD NATIONAL MUSEUM.

This Museum is located in the old Joseph House, at the corner of Sherbrooke and McTavish Streets. The collection is a gift to the University from Mr. David Ross McCord of Temple Grove, a graduate in Arts of 1863, and in Law of 1867. The range of the collection is most extensive, comprising, as it does, mementoes of the great statesmen, warriors, writers, and spiritual leaders among the two principal races which are now represented in Canada, as well as of the great explorers of every part of the North American continent. The Arctic souvenirs are especially numerous and important, and in the department of Wolfiana, the Museum is probably unrivalled.

One of the most important departments is that treating of the North American Indian, the section relating to the Indians of the Eastern half of the continent being especially complete. Here are to be seen the arms and personal relics of Tecumseh and Brant, and most wonderful specimens of wampum and Indian silver. The great series of paintings illustrative of the campaigns and archæology of Canada are not only accurate, but artistic. There are separate departments for china, glass and historical furniture as well as one for the cradle industries of Canada. There is a special room for relics of the Founder of the University, and of its first great Principal, Sir Wm. Dawson, with his distinguished colleagues in science at the time, Sir William Logan and Dr. Sterry Hunt.

A special aim of the Museum is to form a school of useful and ornamental art, based in types of native Indian industry, such as the manufacture of wall papers, works in metal of all kinds, and ceramic work, in the motifs for which the Museum is especially rich.

### THE PETER REDPATH MUSEUM.

1. The botanical room on the ground floor contains the herbarium consisting of 50,000 specimens of Canadian and exotic plants and collections illustrating structural and economic botany.

2. In the corridor on the ground floor is exhibited the Todd Ethnographical Collection from West Africa.

3. The Lyman entomological room is also situated on the ground floor. Mr. A. F. Winn is the entomological curator under the Lyman Bequest.

4. On the first floor is a room over the entrance hall, in which are cases containing archæological and ethnological objects, including collections from the Queen Charlotte Islands, from Egypt, and from West Africa.

5. This room opens into the great museum hall, on each side of which are alcoves with upright and table cases containing the collection in palæontology arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological and botanical classification, so as to enable the student to see the general order of life in successive periods, and to trace any particular group through its geological history.

6. At the extreme end of the hall are placed the collections of minerals and rocks, arranged in such a manner as to facilitate their systematic study. In the centre of the hall are economic collections and large casts and models. These compose the Sir William Logan Memorial Collection.

7. In the upper story or gallery of the great hall are placed the zoological collections; the invertebrate animals in table cases in regular series, beginning with the lower forms; the vertebrate animals in upright cases, in similar order. The PHILIP CARPENTER COLLECTION of shells is especially noteworthy for its arrangement and completeness.

Papers and memoirs relating to certain type specimens in the collections can be obtained from the Assistant Curator. Classes of pupils from schools can be admitted on certain days under regulations which may be learned from the Professors of Botany, Geology and Zoology or from the Registrar of the University.

### MUSEUM OF PATHOLOGY.

The Pathological Museum of the University contains to date approximately 7,440 specimens, of which some 3,540 are mounted and catalogued on the Museum shelves, and the balance are in a carefully labelled and classified storage, where they are readily available for teaching, and from which they are constantly being drawn and added to the display collection on the shelves of the Museum proper. A descriptive catalogue is in process of preparation. The Museum includes the pathological collection of the Royal Victoria Hospital, which consists of some 240 specimens preserved in colours, mounted and catalogued. Some 110 models, of microscopic slides and charts for pathological and clinical teaching, are filed in the Museum.

## MUSEUM OF ANATOMY.

The Anatomical Museum is designed primarily as a teaching museum to be used in conjunction with the didactic and practical instruction given in the Department of Anatomy. It now contains several thousand preparations and models arranged to illustrate general embryology; human embryology and organogenesis; the theory of human evolution; the prehistoric races of mankind; physical anthropology; comparative osteology; general comparative anatomy and the details of human structure, regional, systematic and topographical.

In addition to the material which is exhibited in the museum cases several hundred wet preparations are kept in storage and are used as teaching specimens in the class and dissecting rooms.

Special collections illustrating the anatomy of regions and organs have been formed and are being continually augmented. These are available not only for undergraduate teaching, but also for use by interested graduates.

A collection of over two thousand lantern slides and several hundred stereoscopic photographs is maintained.

## MUSEUM OF HYGIENE.

The material in the museum has been rearranged with a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of public health, but also examples of types which are to be avoided on hygienic principles.

In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.*—Including disinfecting apparatus of all kinds, disinfectants and antiseptics.

2. *Lighting and Heating.*—Showing contrivances used for these purposes, and illustrative of the principles involved.

3. *Water.*—Showing conditions connected with pollution of water supplies, whether derived from the surface or underground sources; methods of purification on large and small scales; water pipes, etc., and the influence which these fittings may exert upon the water contained therein.

4. *Soils and Buildings.*—Building sites, various kinds of soils; relation between soil and dampness; permeability of soils to gases and water; composition of soils; effects of ground moisture on dwellings; measures to be taken against dampness and foul air; and building materials of all kinds.

5. *Air.*—Including ventilation schemes and appliances; climate and meteorology, with apparatus illustrative of each class.

6. *Foodstuffs.*—Adulterations and sophistications practised; samples of unsound foodstuffs.

7. *Bacteriological and Pathological.*—Specimens of diseased meats; specimens and slides of all the common micro-organisms, pathogenic and non-pathogenic.

8. *Clothing.*—Specimens of all the materials utilized for the manufacture of clothing, showing the raw state and the various processes through which they pass until the finished product is reached; the hygienic value of these various articles is also set forth.

Injuries and deformities which may directly result from the use of badly designed articles of clothing; history and evolution of clothing.

9. *Drainage and Refuse Disposal.*—This section includes every type of appliance used as sanitary fixtures in buildings; drainage schemes; ultimate disposal of refuse both liquid and solid; refuse destructors, and sewage disposal plants. The section also includes types of faulty methods and appliances which on principle ought to be avoided.

In addition to the regular museum exhibit, there is a collection of over 1,000 lantern slides illustrative of phases of hygiene. The slides have been so arranged as to be available for demonstration as hand specimens.

A catalogue with text and full description of all the exhibits contained in the museum is issued by the University authorities, and may be purchased at the general office.

### 3. WORKSHOPS.

The workshops, erected on the Thomas Workman Endowment, have a floor area of more than 20,000 square feet.

*Equipment.*—The carpenter shop and the pattern shop contain thirty-eight carpenters' and pattern-makers' benches complete with the necessary sets of hand tools, twenty-two wood-turning lathes with their turning tools, a large pattern-maker's lathe for faceplate work, one circular-saw bench, a jig-saw, a band-saw, two wood trimmers, a surface planer, a thickness planer, a mortising machine, a saw-sharpener, and one universal wood-working machine.

The smith shop is provided with twenty Sturtevant forges, which are power-driven and are connected with an exhaust fan. There is a power hammer, and the necessary equipment of anvils, swage blocks, sets, flatteners and other tools. Provision is made for instruction in soldering and brazing.

The foundry has benches, tools and apparatus for bench and floor moulding and core-making, and is able to accommodate twenty students. A gas-fired brass melting furnace, a cupola for melting iron, and the necessary core-ovens and core-benches give facilities for undertaking

iron foundry work in green and dry sand, and for brass moulding. The shop is served by a hand travelling crane of one-ton capacity.

The machine shop has twelve 18-inch engine lathes, three 16-inch engine lathes, two 14-inch engine lathes, one 18-inch turret lathe fitted for stud and screw making, one 27-inch engine lathe, one brass-finishing lathe, one 36-inch vertical drilling machine with compound table, one universal milling machine with vertical milling atachment and dividing headstock, one planer capable of taking work up to 24 x 24 in. x 5 ft., one 9-inch slotting machine, two 16-inch shapers, one universal grinding machine, centering machine, a cutter grinder, a tool grinder, and an inch vertical drilling machine with compound table, one universal buffing and emery grinding machine. There are vise benches for twenty-five students, with the necessary hand-tools, and a marking-off table. The tool-room contains a full equipment of drills, reamers, milling cutters, and accessories, gauges, calipers, and other measuring instruments.

All the machinery in the workshops is driven electrically by motors taking power from the generating station in the Macdonald Building.

# REGISTER OF STUDENTS.

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Abbott, Arthur Caldwell | Ap. Sci. 3 (Me.) | 299 Pine Ave. West, Montreal, Que. |
| Abbott-Smith, George Wakely | Med. 5 (Final) | 10 Bellevue Avenue, Westmount, Que. |
| Abey, Wm. John Hamilton | Med. 4 | Chater, Manitoba. |
| Abinovitch, Monroe | Law 1 (B.C.L.) | 4462 Sherbrooke St., Westmount, Que. |
| Abraham, Dorothy Durfee (Mrs. F. G.) | Grad. Sch | 2 Parkside Place, Westmount, Que. |
| Abrahamson, Henry | Com. P | 44 Emerson St., Portland, Maine, U.S.A. |
| Abrahamson, Robert Henry | Med. 1 | 260 Riverside Drive, New York, U.S.A. |
| Abrahamson, Sadie Cecily | Arts 1 | 410 Durocher Ave., Outremont, Que. |
| Abramovitch, Joseph Saul (Double Course, B.A., M.D.) | Arts 2 | 592 Drolet Street, Montreal, Que. |
| Acton, Joseph Henry | Med. 5 (Final) | Gananoque, Ont. |
| Adam, Douglas Cameron | Arts 2 | 96 Durocher Street, Montreal, Que. |
| Adams, Albert Oliver | Ap. Sci. 2 | Bowesville, Ont. |
| Adams, Doris Clara | Arts 1 | 2 Fourth Ave., Ville St. Pierre, Que. |
| Adams, Gordon Taylor | Arts 1 | Matapedia, Que. |
| Adams, Leyland John | Med. 3 | Magog, Que. |
| Addie, Donald Kyle | Ap. Sci. 4 (Me.) | 148 St. Cyrille St., Quebec, Que. |
| Addleman, William (Double Course, B.A., M.D.) | Arts 4 Med. 3 | P.O. Box 5, Pembroke, Ont. |
| Adney, Francis Glenn | Grad. Sch | Woodstock, N.B. |
| Affleck, Jean Scott | Arts 3 (Hon.) | 90 Fairmount Ave., Ottawa, Ont. |
| Aggiman, Selim | Com. 3 | Rue Yasidji Botton Han No. 28, Constantinople, Turkey. |
| Aikman, Howard | Arts 3 (Hon.) | 340 St. Catherine Rd., Outremont, Que. |
| Aird, Ruth Margaret | Arts P | 291 Peel St., Montreal, Que. |
| Airey, Henry Talbot | Ap. Sci. 2 | R.R. No. 1, Nelson, B.C. |
| Alberga, Clarence Leopold | Com. 1 | 40 Market St., Montego Bay, Jamaica, B.W.I. |
| Alexander, Benjamin | Med. 5 | 28 Durocher St., Montreal, Que. |
| Alexander, Edward Ryckman | Arts 4 (Hon.) | 334 Harvard Ave., Montreal, Que. |
| Allan, John Maynes | Grad. Sch | P.O. Box 650, Halifax, N.S. |
| Allan, Warde Baunton | Med. 1 | 602-13th Ave. West, Calgary, Alta. |
| Allder, Elsie | Grad. Nurses | Groveton, New Hampshire, U.S.A. |
| Allen, Edward Robert | Med. 2 | Jamestown, New York, U.S.A. |
| Allen, Eric McKenzie | Med. 1 | Brown's Town P.O., Jamaica, B.W.I. |
| Allen, Irene Grace | Arts 2 (B.Sc.) | 655 Grosvenor Ave., Westmount, Que. |
| Allison, Helen Ringen | Arts 1 (B.Sc.) | Rothesay, N.B. |
| Allison, J. Graham | Ap. Sci. 2 | 619 Belgium Ave., Westmount, Que. |
| Almond, Lloyd Beemer | Ap. Sci. 2 | 299 Marlowe Ave., Montreal, Que. |
| Altner, Harry | Arts 1 | 78 St. Dominique St., Quebec, Que. |
| Altner, Harry Arthur | Med. 5 | 537 Cadieux St., Montreal, Que. |
| Altrovitch, Samuel | Arts 2 (Hon.) | 899 Cadieux St., Montreal, Que. |
| Alward, Frederick Porter | Arts 1 | c/o Dept. Railways and Canals, Ottawa, Ont. |
| Alward, Harold Cedric | Med. 5 (Final) | 84 Burpee Ave., St. John, N.B. |
| Ambrose, John Howard | Ap. Sci. 4 (Met.) | 42 Charlton Ave. E., Hamilton, Ont. |
| Amos, Edward Augustus | Med 5 (Final) | 8-36th Ave., Lachine, Que. |
| Amos, Isadore Louis | Med. 4 | 1456 St. Urbain St., Montreal, Que. |
| Amos, Pierre Charles | Ap. Sci. 5 (Arch.) | 108 Chomedy St., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Anderson, Colin Kemp | Com. 1 | |
| (Cancelled October, 1923.) | | |
| Anderson, Duncan Robinson | Law 3 | |
| | (B.C.L.) | 4398 Western Ave., Westmount, Que. |
| Anderson, Edward Stanley | Med. 5 | c/o Mills, Raney & Dewar, Sun |
| | (Final) | Life Building, Toronto, Ont. |
| Anderson, Francis L. P. | Arts 2 | 1930 Park Avenue, Montreal, Que. |
| Andrew, Oliver F. | Med. 5 | Oakville, Ont. |
| Andrews, Donald Cochrane | Ap. Sci. 4 | |
| | (Ci.) | 68 Arlington Ave., Westmount, Que. |
| Andrews, Everard Aloysius | Med. 3 | Mt. Annon, St. David's, Grenada, B.W.I. |
| Andrews, Florence Ethel | Arts. P | 490 Cavendish Avenue, Montreal, Que. |
| Anglin, Frances | Arts 2 | |
| | (Hon.) | 682 Roslyn Ave., Westmount, Que. |
| Anglin, Mary Esther | Phys. Ed. 1 | 682 Roslyn Ave., Westmount, Que. |
| Angus, Frederic William | Ap. Sci. 1 | 240 Drummond St., Montreal, Que. |
| Annable, Weldon Grant | Com. 3 | 43 St. Luke St., Montreal, Que. |
| Anson, Clement Matthew | Ap. Sci. 3 | |
| | (Met.) | 306 Fourth Ave., Verdun, Que. |
| Apter, Robert Frank | Phar. 1 | 59 St. Dominique St., Quebec, Que. |
| Arbuckle, Albert Meldrum | Med. 3 | Pictou, N.S. |
| Archambault, Jean Jules A. | Ap. Sci. 2 | |
| | (Chem.) | 443 Durocher Ave., Outremont, Que |
| Archer, Aubrey Clifford | Ap. Sci. 4 | |
| | (Me.) | Hastings Lodge, Barbados, B.W.I |
| Archibald, Alice Theresa | Com. 1 | Rossland, B.C. |
| Archibald, Ian Thurston | Ap. Sci. 2 | |
| | (Arch.) | 4278 Dorchester St. W., Montreal, Que. |
| Archibald, Margaret Grace | Arts P | 52 Westmount Blvd., Westmount, Que. |
| Argue, Forrest Birkley | Med. 5 | |
| | (Final) | Shawville, Que. |
| Argue, Leila Elizabeth | Arts 2 | 189 O'Connor St., Ottawa, Ont. |
| Armitage, Clifford D. | Com. 3 | 45 Montreal St., Sherbrooke, Que. |
| Armstrong, Charles A. R. | Arts 3 | |
| | (Hon.) | 778 George St., Peterborough, Ont. |
| Armstrong, Denis Gordon | Phar. 2 | 539 Grand Trunk St., Montreal, Que. |
| Armstrong, Thomas | Grad. Sch | 411B St. Antoine St., Montreal, Que. |
| Armstrong, William Edwin | Arts P | Waweig, Charlotte County, N.B. |
| Armstrong, William Sloane S. | Med. 5 | |
| | (Final) | 10050-117th St., Edmonton, Alta. |
| Arnold, Leonard Edward | Arts 1 | Montego Bay, Jamaica, B.W.I. |
| Aronovitch, Abraham | Arts 1 | 683 Montsabre St., Montreal, Que. |
| Ashby, Reginald Beale | Ap. Sci. 4 | |
| | (El.) | 12 Highland Ave., Montreal, Que. |
| Aspler, I. | Arts 1 | |
| (Cancelled Oct. 26, 1923.) | | |
| Astwood, Ernest Millard | Arts 1 | Hamilton, Bermuda. |
| Atkinson, Doris Evelyn | Arts 4 | |
| | (Hon.) | Melbourne, Que. |
| Atkinson, Ethel Theodora | Arts 1 | 79 City Councillors St., Montreal, Que. |
| Atwell, Ernest Alleyne | Grad. Sch. | Hampton Plantation, St. Philip, Barbados, B.W.I. |
| Aubry, Albini | Med. 2 | Lancaster, Ont. |
| Aubut, William Lawrence | Med. 1 | 414 St. Antoine St., Montreal, Que. |
| Ault, James Oscar | Dent. 2 | Cornwall, Ont. |
| Avison, Henry Reade Charles | Grad. Sch | New Denver, B.C. |
| Aylard, Clara Muriel | Grad. Sch. | 625 Elliott St., Victoria, B.C. |
| Azeff, Henry | Com. 3 | 1654 St. Urbain St., Montreal, Que. |
| Bacal, Harry Lyon | Arts 2 | |
| (Double Course, B.A., M.D.) | | 37 Church St., Quebec, Que. |
| Backer, David Russell | Med. 5 | |
| | (Final) | 1337 St. Urbain St., Montreal, Que. |
| Backman, Maurice Allan | Phar. 1 | 1256 St. Urbain St., Montreal, Que. |
| Backman, Peter Louis | Med. 4 | 1256 St. Urbain St., Montreal, Que. |
| Bacon, Lorna May Abney | Arts 1 | 4161 Dorchester St., Westmount, Que. |
| Bagley, Harry Edison | Med. 5 | |
| | (Final) | Danville, Que. |
| Bailey, C. E. Stanley | Med. 1 | Basseterre, St. Kitts, B.W.I. |
| Bailey, Loring Withall | Ap. Sci. 4 | 122 Grande Allée, Quebec, Que. |
| | (El.) | |
| Baillargeon, Paul Felix | Law 2 | |
| | (B.C.L.) | 1154 St. Hubert St., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Baily, Francis Arthur A. | Ap. Sci. 3 (El.) | 364 Kensington Ave., Montreal, Que. |
| Baker, Alexander Douglas | Grad. Sch. | 37 St. Famille St., Montreal, Que. |
| Baker, Hyman | Law 2 (B.C.L.) | 741 St. Lawrence St., Montreal, Que. |
| Baker, Loran Ellis | Com. 1 | Yarmouth, N.S. |
| Baker, Mary Edith | Arts 3 (Hon.) | 194 Milton St., Montreal, Que. |
| Baker, Mildred Lily | Arts 3 (B. Sc.) | 159 Hutchison St., Montreal, Que. |
| Baker, William Edward | Med. 5 (Final) | R.R. No. 2, Carlton, Oregon, U.S.A. |
| Balbir-Singh, Fitz-Gerald | Med. 2 | Mucurapo St., San Fernando, Trinidad, B.W.I. |
| Ball, Franklin Percival | Med. 3 | Waterville, Que. |
| Ball, John Clement | Med. 3 | 40 William St., St. Catharines, Ont. |
| Ballantyne, Charles Trenholme | Law 1 (B.C.L.) | 678 Mountain St., Montreal, Que. |
| Ballantyne, James Ross | Ap. Sci. 1 | 678 Mountain St., Montreal, Que. |
| Balleny, James Lister | Ap. Sci. 3 (El.) | Grand Falls, Newfoundland. |
| Banford, Jean Elizabeth | Arts 3 (Hon.) | Hawkesbury, Ont. |
| Banks, Charles Whitney | Med. 5 (Final) | Veteran, Alta. |
| Barker, Beatrice (Mrs. R. A.) | Arts P | 304 Oxford Avenue, Montreal, Que. |
| Barnard, Edmund Austin | Arts 3 (Hon.) | 313 Stanley St., Montreal, Que. |
| Barnes, Dewitt R. S | Med. 5 | Turin, New York, U.S.A. |
| Barnes, Edna A | Grad. Nurses | 3476 Verville St., Park Extension, Montreal, Que. |
| Barnes, Thomas Cunliffe | Arts 2 (Hon.) | 1627 Hutchison St., Apt. 5, Montreal, Que. |
| Barnes, Walter Bramwell | Arts P | South Windham, Maine, U.S.A. |
| Barnes, William | Arts 1 | 113 Joliette St., Montreal, Que. |
| Barnes, William Howard | Ap. Sci. 4 (Chem.) | 637 Grosvenor Ave., Westmount, Que. |
| Baron, Henry | Med. 2 | 1699 St. Urbain St., Montreal, Que. |
| Barré, Genevieve Mary | Arts 1 | 1161 St. Hubert St., Montreal, Que. |
| Barrett, Richard Ethelred | Ap. Sci. 2 | 25 North Water St., Galt, Ont. |
| Barrett, Russell James | Ap. Sci. 1 | 381 Guy St., Montreal, Que. |
| Barry, Gerald John, Jr. | Com. 2 | 100 Broadway, New York City, New York, U.S.A. |
| Barry, Kathleen Grace | Phys. Ed. 1 | Sutton, Que. |
| Barskey, Shimon | Arts 1 | 1640 Esplanade Ave., Montreal, Que. |
| Bartlett, John Frederick | Ap. Sci. 3 (Me.) | 5 Gilmour St., Ottawa, Ont. |
| Bartlett, L. Sheldon | Arts P | Yarmouth Centre, Ont. |
| Barton, Phillip Benning | Med. 3 | 47 Broad St., Plattsburgh, New York, U.S.A. |
| Barza, David | Arts 1 | 449 St. Dominique St., Montreal, Que. |
| Bashaw, Albert Charles H (Cancelled Jan. 1924) | Arts 1 (B.Sc.) (Med. 1.) | 12 Jackson Ave., Rutland, Vt., U.S.A. |
| Basken, B. Eileen C | Arts 4 (B.Sc., Hon.) | 350 Somerset St., Ottawa, Ont. |
| Bassen, Frank Albert | Med. 2 | 251 King St. E., St. John, N.B. |
| Batshaw, Abe | Arts 1 | 61 Parthenais St., Montreal, Que. |
| Batshaw, Harry | Law 3 (B.C.L.) | 61 Parthenais St., Montreal, Que. |
| Bauman, Bert Erich | Ap. Sci. 2 | Buckingham, Que. |
| Bauman, Moses | Com. 3 | 846 City Hall Ave., Montreal, Que. |
| Baxter, Gordon Bruce | Ap. Sci. 2 | 144 Des Forges St., Three Rivers, Que. |
| Baxter, Hamilton Achison | Dent. 3 | 285 Hampton Ave., Montreal, Que. |
| Baxter, Stewart Gardner | Med. 3 | 285 Hampton Ave., Montreal, Que. |
| Bayfield, Edward Geoffrey | Grad. Sch. | 9901-107th St., Edmonton, Alta. |
| Bazin, Alfred Randolph | Arts 1 | 4064 Dorchester St., Westmount, Que. |
| Beairsto, Everett Benjamin | Med .5 (Final) | Malpeque, P.E.I. |
| Beardsley, James Murray | Med. 3 | Wolfville, N.S. |
| Beaton, Kenneth Kendall | Dent. 2 | 616 George St., Sydney, N.S. |
| Beaudet, Lionel | Grad. Sch. | St. Emilie de Lotbinière, Que. |
| Beck, Robert George | Ap. Sci. 1 | 417 Machray Ave., Winnipeg, Man. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Becker, Laban Mortimer | Arts 2 (Hon.) | 142 Laurier Ave.,W., Montreal, Que. |
| Beckford, Bancroft Barlow | Med. 2 | 98 Cranston St., Providence, R.I. |
| Becking, John A. | Ap. Sci. 4 (Mi.) | 32 Wellington St.,E., Sault Ste. Marie, Ont. |
| Bedford-Jones, Muriel C. | Arts 2 (Hon.) | St. James Rectory, Perth, Ont. |
| Beinhaker, Israel | Dent. 3 | 1238 Clarke St., Montreal, Que. |
| Belanger, A. (Cancelled Jan. 1924.) | Ap. Sci. 1 | 176 Dorchester Sr. W., Montreal, Que. |
| Belanger, Joseph Edouard | Med. 3 | 541 Besserer St., Ottawa, Ont. |
| Bell, Charles Renfrew | Ap. Sci. 2 | St. John's Newfoundland. |
| Bell, Estelle Doris | Arts 1 | Shawbridge, Que. |
| Bell, Graham Airdrie | Ap. Sci. 1 | Alexandra Hotel, Ottawa, Ont. |
| Bell, Robert Blagrave (Double Course, B.Sc., D.D.S.) | Arts 2 | 363 Melville Ave., Westmount, Que. |
| Bell, Willard Kenneth | Com. 1 | 2168 Waverly St., Montreal, Que. |
| Bellew, Leo Thomas Frederick | Ap. Sci. 2 | 298 St. Joseph Boulevard West, Montreal, Que. |
| Bellman, Harry | Phar. 1 | 297 Colonial Ave., Montreal, Que. |
| Belnap, Jane Ione | Arts 1 | 558 Roslyn Ave., Westmount, Que. |
| Benjamin, Abraham | Ap. Sci. 4 (El.) | 1742 Mance St., Montreal, Que. |
| Bennett, Arthur Joseph | Ap. Sci. 1 | River Desert, Que. |
| Bennett, James Gordon | Arts 3 | Calumet, Que. |
| Bennett, Moe (Cancelled Oct. 1923.) | Phar. | 1006 St. Urbain St., Montreal, Que. |
| Benny, Marguerite Isabel | Arts 1 | Joliette, Que. |
| Benson, Harry G | Dent. 3 | Grates Cove, Newfoundland. |
| Berenstein, Albert Isidore | Phar. 1 | 2314 Mance St., Apt. 8, Montreal, Que. |
| Berger, Julius | Grad. Sch. | 287 St. Joseph Boulevard West, Apt. 12 Montreal, Que. |
| Berinbaum, Maurice | Med. 3 | 473 Colonial Ave., Montreal, Que. |
| Berlind, Melvyn Mo | Med. 2 | 462 Elm Ave., Westmount, Que. |
| Berlind, Samuel Julius (Cancelled Oct. 1923.) | Med. 1 | |
| Berman, David | Med. 5 (Final) | 308 Cameron St., Fort William, Ont. |
| Bernier, Anna Marie (Cancelled October, 1923) | Grad. Nurses | |
| Bernstein, Jacob Clarence | Med. 3 | 5 Tara Hall Ave., Montreal, Que. |
| Bernstein, Marcel | Arts 1 | 2388 Esplanade Ave., Montreal, Que. |
| Bernstein, Saul Harold | Dent. 3 | 85 Mt. Royal Ave. W., Montreal, Que. |
| Berridge, Winston W. | App. Sci. 3 (Me.) | 48 Rozel St., Montreal, Que. |
| Bertrand, Eva Mae | Grad. Nurses | 106 Theodore Ave., Montreal, Que. |
| Berwick, Kenneth Cameron | Dent. 1 | 31 Crescent St., Montreal, Que. |
| Berzan, David | Com. 3 | 2359 St. Denis St., Montreal, Que. |
| Bethel, John Perceval | Arts 4 (Hon.) | 31 Market St., Nassau N.P., Bahamas. B.W.I. |
| Betts, Randolph Cotgrave | Ap. Sci. 1 (Arch.) | 14 Amesbury Ave., Montreal, Que. |
| Biard, Herbert Walter | Arts P | Percé, Gaspé Co., Que. |
| Bickford, Andrew Arthur | App. Sci. 3 (Me.) | c/o The New York Trust Co., New York City, U.S.A. |
| Bickford, Charles Edward | Ap Sci. 1 | "La Reforma," Guatemala Cy., Central America. |
| Bickford, John William | Med. 4 | c/o A. & B. Corporation, Guatemala, Central America. |
| Bickle, John Austin | Med. 1 | 1803 Belmont St., Victoria, B.C. |
| Bingham, Leroy W. (Cancelled October, 1923) | Dent. 1 | Charleston, South Carolina, U.S.A. |
| Bingham, Margaret Lillian | Com. 3 | Richmond Road, Ottawa, Ont. |
| Birbeck, Albert Franklin | Med. 5 (Final) | 231 Stanley St., Montreal, Que. |
| Birkett, Charles Blair | Ap. Sci. 3 (Ci.) | 517 O'Connor St., Ottawa, Ont. |
| Bishop, Eric Gordon | Grad. Sch | Greenspond, Newfoundland. |
| Bishop, Gilbert | Grad. Sch. | Western Bay, Newfoundland. |
| Bissett, Alice | Arts 3 (Hon.) | 314 Broadway Ave., Lachine, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Black, Alan Hibbert | Com. 2 | 202 Milton St., Montreal, Que. |
| Black, Mary Martha | Grad. Nurses | Oak Lake, Man. |
| Blackler, Chesley Frederick | Med. 4 | St. John's, Newfoundland. |
| Bladon, Leigh Watson | Ap. Sci. 2 | 35 Holton Ave., Westmount, Que. |
| Blain, James George | Med. 5 (Final) | 32 Lansdowne St,. Soo, Ont. |
| Blair, Murdock Wilfrid | Dent. 3 | 2257 McIntyre St., Regina, Sask. |
| Blau, Abbie | Arts 1 (B.Sc.) | 611 St. Urbain St., Montreal, Que. |
| Blond, Harry Hy | Arts 1 | 309 Laval Ave., Montreal, Que. |
| Bloomfield, Bernard Moe | Com. 1 | 4019 Dorchester St. W., Westmount, Que. |
| Bloomfield, Louis Mortimer | Arts 1 | 4019 Dorchester St. W., Westmount, Que. |
| Bloomfield, Maxwell Irving | Med. 4 | 724 St. Denis St., Montreal, Que. |
| Blumenfeld, Edward Alexander | Med. 5 (Final) | 1013 Clarke St., Montreal, Que. |
| Blumenstein, J. Harold | Arts 4 (Hon.) | 990 Clarke St., Montreal, Que. |
| Blundell, Stanley Frederic | Arts 3 (Hon.) | 225 Quebec St., Victoria, B.C. |
| Blundon, Leslie Withfield | Arts P | Montreal, Que. |
| Blunt, Harry Walton | Com. 2 | Granby, Que. |
| Blustein, David | Phar. 1 | 828 Henri Julien Ave., Montreal, Que. |
| Bogante, Jack | Arts 2 (Hon.) | 3152 Papineau Ave., Montreal, Que. |
| Bogue, A. A. (Cancelled Oct. 31st, 1923) | Arts P | Montreal, Que. |
| Bonavitzky, Jack | Phar. 2 | 43 Union St., Sydney, N.S. |
| Boness, Jacob | Dent. 1 | 24 Duluth Ave. W., Montreal, Que. |
| Boomhour, W. H (Cancelled Nov. 15th, 1923) | Arts P | |
| Boos, Albert Willard | Arts 1 | Chesley, Ont. |
| Booth, Robert James | Arts 3 (Hon.) | 184 Bank St., Ottawa, Ont. |
| Borden, Douglas Clare | Ap. Sci. 4 (El.) | Pugwash, N.S. |
| Borts, Paul | Law P<br>Arts P | 176 St. George St., Montreal, Que. |
| Bostock, Hugh Samuel | Ap. Sci. 4 (Mi.) | Monte Creek, B.C. |
| Botterell, Edmund Harry | Arts 1 | 254 Wellington Crescent, Winnipeg, Man. |
| Boucher, Harold Hamlyn | Med. 4 | Chilliwack, B.C. |
| Bouillon, Ernest Linden | Ap. Sci. 4 (Arch.) | Paspebiac, Que. |
| Boulton, Beverley Knight | Ap. Sci. 3 (El.) | 5 College Court, Quebec, Que. |
| Bourke, William Manly | Law 3 (B.C.L.) | 42 Lorne Ave., Montreal, Que. |
| Bourne, Austin Herbert | Ap. Sci. 3 (Met.) | 43 Third St., St. Lambert, Que. |
| Bourne, Charles Clayton | B.Sc., M.D. 1 | 4174 St. Catherine St. W., Westmount, Que. |
| Bourne, Wesley | Grad. Sch | 34 St. Mark St., Montreal, Que. |
| Bourque, Edgar Guy | Med. 1 | Moncton, N.B. |
| Bowering, Benjamin | Arts 1 | 43 Kings Road, St. John's, Newfoundland. |
| Bowman, Frederick Basil | Med. 4 | Southampton, Ont. |
| Boyce, J. Clifford | Med. 5 (Final) | 317 Eleventh Ave. East, Calgary, Alta |
| Boyd, David | Ap. Sci. 2 | 122 George V. Ave., Lachine, Que. |
| Boyd, John Huntley | Med. 5 (Final) | River Bourgeois, N.S. |
| Boyes, Watson | Arts 4 (Hon.) | 205 Newland Ave., Hull, England. |
| Boyle, Hubert Allan | Med. 5 (Final) | No. 1 Algonquin Apts., Edmonton Alta. |
| Boyle, Joseph Edgar | Med. 3 | 277 Bronson Ave., Ottawa, Ont. |
| Brain, Cecil | Ap. Sci. 1 | Grand Falls, Newfoundland. |
| Branscombe, Arthur Forrester | Ap. Sci. 2 | 4357 Montrose Ave., Westmount, Que. |
| Braunstein, Moses M | Med. 2 | 43 Drolet St., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Bray, Gerald Cuthbert | Law 1 (B.C.L.) | 583 Dorchester St. W., Montreal, Que. |
| Brayton, Merritt James | Med. 5 (Final) | Red Deer, Alta. |
| Breithaupt, Paul Theodore | Com. 2 | 108 Queen St. N., Kitchener, Ont. |
| Breitman, Reuben | Med. 5 (Final) | 1929 Esplanade Ave., Montreal, Que. |
| Bremner, Douglas Orrin | Ap. Sci. 2 | 374 Roslyn Ave., Westmount, Que. |
| Bremner, Marjorie Bain | Soc. Workers 1 | 553 Champagneur Ave., Outremont, Que. |
| Brewster, Constance Eleda | Grad. Nurses | Brantford, Ont. |
| Briand, Ludger Joseph | Grad. Sch | Amherst, Magdalen Islands, Que. |
| Brierley, James G | Arts 2 (Hon.) | 623 Sydenham Ave., Westmount, Que. |
| Briggs, Richard Milburn | Arts P | 26 Albemarle St., Rochester, N.Y., U.S.A. |
| Bright, John Mowat (Cancelled Jan., 1924) | Com. 2 | Niagara Falls, Ont. |
| Brink, Robert Harold | Med. 2 | 125 N. Main St., Cortland, N.Y., U.S.A. |
| Britton, Sydney William | Med. 5 (Final) and Grad. Sch | Barnstaple, Devon, England. |
| Brock, Annie Gertrude | Grad. Sch | 34 Cranworth St., Glasgow, Scotland. |
| Brock, Hugh Maurice Henry | Ap. Sci. 1 | 316 Pine Ave. W., Montreal, Que. |
| Brodie, Dorothy Mae | Arts 2 | Iberville, Que. |
| Brodie, Gwendolyn Davie | Arts 2 (B.Sc.) | 3215 St. James St. W., Montreal, Que. |
| Brodie, LeSueur | Ap. Sci. 2 | 287 Laval Ave., Montreal, Que. |
| Brodie, Maurice | Med. 2 | 132 Driveway, Ottawa, Ont. |
| Bronson, Harvey Nicol | Arts 3 | 133 Erie Ave., Hamilton, Ont. |
| Brooke, Eva Ann | Grad. Nurses | Maple Creek, Sask. |
| Brooks, Charlotte Rebecca | Grad. Nurses | New Liskeard, Ont. |
| Brooks, Margaret Scott | Arts 4 (Hon.) | 4025 Dorchester St., Westmount, Que. |
| Brooks, May Agnes | Phys. Ed. 1 | 1028 Dorchester St. W., Montreal, Que. |
| Brosseau, Leo Arsène (Cancelled Jan., 1924) | Arts 1 | 365 Sherbrooke St. E., Montreal, Que. |
| Brotman, Herbert Louis | Arts 2 (Hon.) | 1238 St. Urbain St., Montreal, Que. |
| Brouillet, Joseph Albert | Ap. Sci. 1 | 172 Milton St., Montreal, Que. |
| Broun, Allyn Wynne | Med. 5 (Final) | 258 Monkland Ave., Montreal, Que. |
| Brown, Anna Virginia | Arts 2 (B.Sc.) | 306 Hampton Ave., Montreal, Que. |
| Brown, Colin Blair | Ap. Sci. 4 (El.) | 613 First Ave., Quebec, Que. |
| Brown, Ella Marion | Arts 3 (Hon.) | Kensington, P.E.I. |
| Brown, Florence Mary (Cancelled Jan. 1924) | Arts 1 | 337 Lower Lachine Road, Lachine, Que. |
| Brown, Frank Meikle | Med. 5 (Final) | Carman, Man. |
| Brown, George William (Cancelled Jan. 1, 1924) | Med. 1 | 4912 Cedar Ave., Cleveland, Ohio, U.S.A. |
| Brown, Harold Rossmore | Dent. 2 | 644 Belgium Ave., Westmount, Que. |
| Brown, Henry T | Dent 4 | 536 Argyle Ave., Westmount, Que. |
| Brown, James Lloyd | Med. 3 | 2302 Scarth St., Regina, Sask. |
| Brown, Laurence Wilmott | Med. 5 | 204 Daly Ave., Ottawa, Ont. |
| Brown, Louise | Grad. Nurses | c/o V.O.N., 46 Bishop St., Montreal, Que. |
| Brown, Marguerite Campbell | Arts 4 | Ayer's Cliff, Que. |
| Brown, Perley Staples | Med. 5 (Final) | Drumheller, Alta. |
| Brown, Richard Charles | Arts 2 | 234 Milton St. S., Sarnia, Ont. |
| Brown, Ronald Earl | Med. 3 | Stoughton, Sask. |
| Brown, Thomas Michael | Med. 1 | 430 Daly Ave., Ottawa, Ont. |
| Brown, Walter Franklin | Ap. Sci. 1 | 2060 Esplanade Ave., Montreal, Que. |
| Brown, Wilfred Harold | Arts 3 (Hon.) | Kensington, P.E.I. |
| Browne, J. S. Lyon (Double Course, B.A., M.D.) | Med. 1 Arts 3 | 380 Elm Ave., Westmount, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Brownstein, Charles | Arts 4 (Hon.) | 983 St. Lawrence Blvd., Montreal, Que. |
| Bruce, Hugh Graham | Med. 5 (Final) | Revelstoke, B.C. |
| Bruce, Margaret Edythe | Arts P | 18 Aberdeen Ave., Westmount, Que. |
| Bruger, Moses | B.Sc., M.D. 3. | 1449 Clarke St., Montreal, Que. |
| Bryce, Lawson E | Com. 3 | 186 Quebec St., Sherbrooke, Que. |
| Bubroff, Isidore | Law 2 (B.C.L.) | 1087 Clarke St., Montreal, Que. |
| Buchanan, William D. H | Ap. Sci. 4 (Me.) | Gould, Que. |
| Buckman, Barnet | Arts 2 | 174 Laval Ave., Montreal, Que. |
| Buell, Kathleen Margaret | Arts P | 146 Wolseley Ave., Montreal West, Que. |
| Buffam, Basil Scott Whyte | Grad. Sch. | Perth, Ont. |
| Bulgin, James Douglas | Arts 4 (B.Sc.) | c/o E. J. Bulgin, E.D. & B.C. Ry., Edmonton, Alta. |
| Burbank, Alton William | Dent. 2 | 66 Sixth Ave., Lachine, Que. |
| Burbank, Erwin Curtis | Dent. 1 | 66 Sixth Ave., Lachine, Que. |
| Burgess, Carl Avard | Dent. 3 | 201 Queen St., Moncton, N.B. |
| Burland, B. Robins | Ap. Sci. 2 | 25 Linden Terrace, Ottawa, Ont. |
| Burland, Miriam Seymour | Arts 3 (Hon.) | 84 Victoria Ave., St. Lambert, Que. |
| Burnett, Dillon (Double Course, B.A., M.D.) | Arts 2 | 23 West 129th St., New York City, U.S.A. |
| Burton, Frederick Randall | Ap. Sci. 1 | Waterville, Que. |
| Burton, Lawrence S | Dent. 1 | Renfrew, Ont. |
| Burwell, William Keith | Med. 4 | Renfrew, Ont. |
| Bushell, Winston Churchill | Dent. 4 | 150 Cote St. Antoine Road, Westmount, Que. |
| Bustin, Howard Barlow | Med. 5 (Final) | 158 St. James St., St. John, N.B. |
| Bustin, Marion | Arts 3 (Hon.) | 158 St. James St., St. John, N.B. |
| Butler, Ernest W. R | Ap. Sci. 4 (Me.) | 11 Fairmont Ave., Ottawa, Ont. |
| Butler, William Shaw | Med. 5 | 11 Fairmont Ave., Ottawa, Ont. |
| Butt, George | Arts P | 113 Highland St., Chelsea, Mass., U.S.A. |
| Buzzell, Henry Walter | Ap. Sci. 4 (Ci.) | Abbotsford, Que. |
| Bydwell, Humphrey Burton | Arts P | 359 Kensington Ave., Westmount, Que. |
| Byrne, James Arthur | Med. 4 | Charlottetown, P.E.I. |
| Cagney, Amy Louise | Grad. Nurses | 235 St. Hubert St., Montreal, Que. |
| Cahana, David Leon | Law 3 (B.C.L.) | 210 St. Joseph Blvd. W., Montreal, Que. |
| Caine, Mona Margaret | Arts 1 | 226 West 108th St., New York City, U.S.A. |
| Caldwell, Guy Tyrrell | Com. 2 | 88 Henderson Ave., Ottawa, Ont. |
| Caldwell, J. Ewart | Med. 5 (Final) | Ottawa, Ont. |
| Caldwell, Robert Joseph | Med. 2 | 10 Hall St., Moncton, N.B. |
| Callaghan, Walter J | Ap. Sci. 1 | Fort Covington, N.Y., U.S.A. |
| Cambron, Adrien | Grad. Sch. | 88 Council St., Sherbrooke, Que. |
| Cameron, Alexander Fraser | Arts 1 | 609 Clarke Ave., Westmount, Que. |
| Cameron, Alice Virginia | Arts 3 | 912 Comte St., Montreal, Que. |
| Cameron, Dorothy Glen | Arts 1 | 25 Grey Ave., Montreal, Que. |
| Cameron, Edward Parke | Grad. Sch. | 381 Northcliffe Ave., Montreal, Que. |
| Cameron, Henry George | Med. 5 (Final) | 2722-20th Ave., Regina, Sask. |
| Cameron, J. Ruth | Grad. Nurses | 36 Swanwick Ave., Toronto, Ont. |
| Cameron, Mabel Alguire | B.Sc., M.D. 2. | Cornwall, Ont. |
| Cameron, Margaret Burnside (Double Course, B.A., M.D.) | Med. 2 Arts 4 | 384 Lansdowne Ave., Westmount, Que. |
| Cameron, Maxwell Yorston (Cancelled Feb. 8, 1924) | Com. 1 | Kenora, Ont. |
| Cameron, Olive Louise Eileen | Arts 2 | 301 Wilbrod St., Ottawa, Ont. |
| Cameron, Robert Joel | Com. 1 | 143 McLaren St., Ottawa, Ont. |
| Campbell, Alexander | Ap. Sci. 4 (Ci.) | 87 Cobourg Ave., Winnipeg, Man. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Campbell, Andrew Keith | Arts 3 | Ormstown, Que. |
| Campbell, Christopher F | Ap. Sci. 3 (El.) | 13 Hamilton St., St. John's, Newfoundland. |
| Campbell, Frank Robinson | Ap. Sci. 4 (Ci.) | P.O. Box 7, New Denver, B.C. |
| Campbell, Gordon Douglas | Arts 2 (B.Sc.) | 123 Crescent St., Montreal, Que. |
| Campbell, Brown Hugh Ivie | Med. 2 | R.R. No. 1, Vernon, B.C. |
| Cannon, Ila Dell | Grad. Nurses | 534-13th St., Brandon, Man. |
| Cantero, Antonio | Med. 3 | 561 Queen St. W., Sault Ste. Marie, Ont. |
| Capelovitch, Victor | Phar. 2 | 91 Villeneuve St. W., Montreal, Que. |
| Caplan, Arthur | Med. 1 | 81 Morning St., Portland, Me., U.S.A. |
| Caplan, David | Phar. 2 | 1645 Mance St., Montreal, Que. |
| Caplan, Joseph Samuel | Arts 2 (Hon.) | 173 Esplanade Ave., Montreal, Que. |
| Caplan, Samuel Lyon | Arts 3 (Hon.) | 768 Notre Dame St. W., Montreal, Que. |
| Cardonsky, Mary | Arts 1 | 198 Villeneuve Ave. W., Montreal, Que. |
| Carl, Selma Christina | Arts 3 (Hon.) | 88 St. Luke St., Montreal, Que. |
| Carley, William Herbert | Com. 1 | 221 Florence St., Ottawa, Ont. |
| Carney, John Arthur | Dent. 2 | 389 St. André St., Montreal, Que. |
| Caron, Réné Edward | Med. 5 | 14 Metcalfe St., Ottawa, Ont. |
| Carson, James Rae | Dent. 1 | 879 Wellington St., Montreal, Que. |
| Carter, Adery Isabel | Arts 2 (Hon.) | 52 Prince Arthur Ave., Toronto, Ont. |
| Carter, Kenneth LeMesurier | Com. 2 | 53 Belvedere Road, Westmount, Que. |
| Case, A. W | Com. 2 | St. Catharines, Ont. |
| Casey, Edward Manning | Med. 2 | Milltown, N.B. |
| Casey, Thomas (Cancelled Feb. 2, 1924) | Law 1 (B.C.L.) | 431 Champlain St., Montreal, Que. |
| Casgrain, John Vincent | Arts 1 | 910 Dorchester St., Montreal, Que. |
| Cassidy, Creighton Richard E | Dent. 4 | 3245 Adam St., Montreal, Que. |
| Casselman, Hyman | Med. 4 | 992 Cadieux St., Montreal, Que. |
| Caswell, Clarence Fowler (Cancelled Jan. 1924) | Ap. Sci. 2 | Windsor Mills, Que. |
| Cave, Allister E | Ap. Sci. 4 (Mi.) | 3 Monroe St., St. John's, Newfoundland. |
| Chabot, Arthur John | Ap. Sci. 3 (El.) | 425 Durocher Ave., Outremont, Que. |
| Chadsey, Louis Calvin | Med. 5 (Final) | 12704-102nd Ave., Edmonton, Alta. |
| Chagnon, Hubertha | Grad. Nurses | 275 Jeanne Mance St., Apt. 8, Montreal, Que. |
| Chait, Samuel (Double Course, B.A., M.D.) | Med. 1 Arts 3 | 53 Mozart Ave. W., Montreal, Que. |
| Chalk, Mary Laura | Arts 3 (Hon.) | 4951 Western Ave., Westmount, Que. |
| Chalker, Chauncey Richard | Ap. Sci. 3 (Me.) | Lake View Ave., St. John's, Nfld. |
| Challenger, Cecil Avelyn | Dent. 3 | Basseterre, St. Kitt's, B.W.I. |
| Chalmers, Frank Burne | Med. 4 | 1927 Angus St., Regina, Sask. |
| Chamberlain, Aubrey Robert | Com. 3 | 312 Indian Road, Toronto, Ont. |
| Chan, Qui Hin | Med. 5 | 116 Chenneville St., Montreal, Que. |
| Charbonneau, Néopol | Law 3 (B.C.L.) | 9 Hope Ave., Montreal, Que. |
| Charland, Walter Edgar | Dent. 3 P | 1137 Wellington St., Montreal, Que. |
| Charles, Ethelbert D. B | Med. 4 | St. George, Grenada, B.W.I. |
| Charlton, Alice Ernestine | Arts P | 391 Wiseman Ave., Montreal, Que. |
| Charness, Isidore | Law 3 (B.C.L.) | 768 City Hall Ave., Montreal, Que. |
| Chase, Wallace Leslie | Arts 4 (B.Sc.) | Barbados, B.W.I. |
| Chauvin, Frank B | Law 3 (B.C.L.) | 720 Maplewood Ave., Outremont, Que. |
| Chauvin, Margaret Oldfield | Phys. Ed. 1 | 720 Maplewood Ave., Outremont, Que. |
| Chave, Bertram William | Arts 4 (B.Sc.) | Woodlands, Que. |
| Cheesman, Frederick John | Med. 2 | Fairville, N.B. |
| Cheifetz, Harry Dickman | Arts 1 | 1532a Cadieux St., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Chesley, Archibald Roy | Arts 1 (B.Sc.) | Coaticooke, Que. |
| Chevrier, Honore Fairbanks | Ap. Sci. 1 (Arch.) | 193 Waller St., Ottawa, Ont. |
| Chipman, H. Ritchie | Grad. Sch. | 52 Inglis St., Halifax, N.S. |
| Chisholm, Agnes (Cancelled Nov. 10, 1923) | Soc. Workers | |
| Chisholm, Colin Brondelle | Med. 1 | St. Catharines, Ont. |
| Chisholm, Daniel Neil | Med. 5 (Final) | Port Hastings, N.S. |
| Chisholm, Gavin William | Med. 3 | 35 Aberdeen Ave., Westmount, Que. |
| Chisholm, Kathleen Vaughn | Arts 1 (B.Sc., B.H.S.) | c/o John Chisholm, Justice Dept. Ottawa, Ont. |
| Christie, Clara | Med. 5 | 414 4th Ave. W., Calgary, Alta. |
| Christie, John Allen | Com. 2 | 604 Linden Ave., Victoria, B.C. |
| Christie, John McGregor (Cancelled Jan. 1924) | Com. 1 | North Sydney, N.S. |
| Christie, Pearl Cora | Med. 4 | 414 4th Ave. W., Calgary, Alta. |
| Clare, Kenneth Ernest | Com. 2 | 361 Victoria Ave., St. Lambert, Que. |
| Clarholm, Victor | Arts 1 | 405 Mackay St., Montreal, Que. |
| Clark, Peter Archibald G | Grad. Sch | 1227 Bernard Ave., Apt. 30, Montreal, Que. |
| Clarke, Austin McMillan | Med. 5 | Newcastle, N.B. |
| Clarke, William Alexander | Ap. Sci. 1 | 267 Catherine St., Ottawa, Ont. |
| Clarkson, Ethel Wilkie | Phys. Ed. 2 | 335 Roslyn Ave., Westmount, Que. |
| Claus, Leon Henry (Cancelled Oct. 1923) | Med. 2 | Ridgeway, Ont. |
| Cleland, John George Paxton | Med. 5 (Final) | Penticton, B.C. |
| Clement, Hugh Wilfred | Med. 5 | Chesterville, Ont. |
| Clendinnen, Ivan C | Med. 5 (Final) | 330 N. Brodie St., Fort William, Ont. |
| Cleveland, Harry Roland | Ap. Sci. 4 (El.) | Danville, Que. |
| Cloutier, Asa Fred | Phar. 2 | Roxton Pond, Que. |
| Cloutier, Elfrid B | Phar. P | Roxton Pond, Que. |
| Cloutier, George Edwin J | Ap. Sci. 4 (Chem.) | 2339 Park Ave., Montreal, Que. |
| Cochrane, Edith | Arts 1 | 5069 Sherbrooke St., Apt. 6, Montreal, Que. |
| Code, Cecil | Ap. Sci. 1 (Arch.) | 548 Gilmour St., Ottawa, Ont. |
| Cohen, Barnet J. (Cancelled Oct. 1923) | Law 3 | 8a Dorchester St. W., Montreal, Que. |
| Cohen, Bernard | Arts 4 (Hon.) | 466 Wilson Ave., Montreal, Que. |
| Cohen, Ethel Jetta | B.Sc., M.D. 3 | 147 Cherrier St., Montreal, Que. |
| Cohen, Harry Arthur | Med. 2 | 89 Dorchester St. W., Montreal, Que. |
| Cohen, Hyman | Med. 2 | 161 Casgrain St., Montreal, Que. |
| Cohen, Jacob | Med. 5 | 566 St. Dominique St., Montreal, Que. |
| Cohen, Lawrence Zebulon | Law 3 (B.C.L.) | 25 Rosemount Ave., Westmount, Que. |
| Cohen, Lionel | Arts 1 | 61 St. Famille St., Montreal, Que. |
| Cohen, Nathan | Phar. 2 | 494 Clarke St., Montreal, Que. |
| Cohen, Rae | Arts P | 466 Wilson Ave., Montreal, Que. |
| Cohen, William Hyman | Phar. 2 | 714 Colonial Ave., Montreal, Que. |
| Coleman, Abner Williams | Ap. Sci. 1 | 19 Hourewood Ave., Hamilton, Ont. |
| Coleman, Charles Lester | Ap. Sci. 1 | 399 Decarie Blvd., Montreal, Que. |
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| Collins, Paul Emile (Cancelled Oct. 1923) | Ap. Sci. 1 | Three Rivers, Que. |
| Colwell, Charles Leslie | Ap. Sci. 1 (Arch.) | 2235 Hutchison St., Montreal, Que. |
| Comeau, Robert Anthony | Dent. 2 | Meteghan River, N.S. |
| Common, Ernest Cameron | Law 1 (B.C.L.) | 851 University St., Montreal, Que. |
| Conklin, Raymond Leroy | Med. 2 and Grad. Sch. | Macdonald College, Que. |
| Conn, Robert Stanley | Med. 3 | Wolseley, Sask. |
| Conner, Gordon Myron | Ap. Sci. 3 (Me.) | 32 Queen St., Sherbrooke, Que. |

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|---|---|---|
| Conrad, Ralph Jones | Ap. Sci. 3 (El.) | P.O. Box 319, Sussex, N.B. |
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| Consiglio, Franco | Ap. Sci. 4 (Arch.) | 90 Milton St., Montreal, Que. |
| Contant, Rebecca Amy | Arts P | 2440 Hutchison St., Montreal, Que. |
| Converse, John Douglas | Ap. Sci. 2 | Derby Line, Vermont, U.S.A. |
| Cooke, Arthur Selwyn King | Ap. Sci. 3 (Arch.) | 103 Ballantyne Ave. N., Montreal West, Que. |
| Cool, David Parker | Dent. 3 | 239 Archibald St., Moncton, N.B. |
| Cooney, George Edward | Arts P | 130 Mansfield St., Montreal, Que. |
| Cooper, Donald Frederick | Ap. Sci. 2 | 341 Metcalfe Ave., Westmount, Que. |
| Cooper, Gilbert Alexander | Com. 3 | Hamilton, Bermuda. |
| Cooper, Hugh Christopher D | Ap. Sci. 5 (Arch.) | Petherton, Truro, England. |
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| Cooperman, Louis | Arts 1 (B.Sc.) | 69 Arcade St., Montreal, Que. |
| Coote, James A | Arts P | 7 Cedar Ave., Pointe Claire, Que. |
| Cope, Edward Selby | Ap. Sci. 3. (Ci.) | 460 Wood Ave., Westmount, Que. |
| Cope, Francis Campbell | Arts 4 (Hon.) | 460 Wood Ave., Westmount, Que. |
| Copland, Charles Leslie | Arts 2 | 4307 Montrose Ave., Westmount, Que. |
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| Copping, Marjorie | Phys. Ed. 2 | Vancouver, B.C. |
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| Corbet, Georgia Byrd | Soc. Workers 1 | 62 Coburg St., St. John, N.B. |
| Corbett, William Edward P | Med. 2 | Fairfield House, Alphington Road, Exeter, England. |
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| Cotler, Nathaniel | Arts 1 | 606d Henri Julien Ave., Montreal, Que. |
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| Cottee, Clifford H. F | Ap. Sci. 3 (Met.) | 4 Capital Park, Ottawa, Ont. |
| Coulborn, Arthur Percy R | Arts 2 (Hon.) | 20 St. Catherine Road, Outremont, Que. |
| Coulson, John Graham | Grad. Sch | Macdonald College, Que. |
| Couper, Mildred Mary | Arts 2 | 663 St. Antoine St., Montreal, Que. |
| Coveler, H. A | Med. 5 (Final) | 1766 Hutchison St., Montreal, Que. |
| Covicy, Harry (Cancelled Oct. 1923) | Phar | 1259 Clarke St., Montreal, Que. |
| Cowan, Reginald Barnes | Arts 2 (B.Sc.) | 50 Bruce Ave., Westmount, Que. |
| Cowan, William Ernest | Med. 4 | 19 Roseberry Ave., Ottawa, Ont. |
| Coyle, Hugh F | Ap. Sci. 1 | Dundee, Que. |
| Craig, Isabel Fairchild | Arts 1 | 309 Somerset St., Ottawa, Ont. |
| Craig, Shirley Abbott | Ap. Sci. 2 | 82 Third Ave., Ottawa, Ont. |
| Craig, Stanley B | Med. 2 | Boston, Mass., U.S.A. |
| Craik, Robert Lang | Arts 2 (Hon.) | Chateauguay Basin, Que. |
| Crandall, John | Arts 1 | Ste. Anne de Bellevue, Que. |
| Crang, Florence Gertrude | Phys. Ed. 1 | 8808-111th St., Edmonton, Alta. |
| Crawford, Alphonse Middleton | Med. 5 (Final) | 1521-15th Ave. E., Vancouver, B.C. |
| Crawford, Edwin Minter | Med. 4 | 43 Waverly Road, Pointe Claire, Que. |
| Crawford, Kenneth | Arts 1 (B.Sc.) | 410 Mance St., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Creelman, Alice Bernice | Med 1 | |
| (Double Course, B.A., M.D.) | Arts 3 | Georgetown, Ont. |
| Creery, Kenneth Andrew | Ap. Sci. 4 (Chem.) | 1389 Jervis St., Vancouver, B.C. |
| Crépeau, Louis | Ap. Sci. 2 | 28 Sherbrooke St. W., Montreal, Que. |
| Crestohl, Max N. | Law 1 (B.C.L.) | 489 St. Lawrence Blvd., Montreal, Que. |
| Crocker, Willard Frederick | Med. 3 | 17 Park Lane, Quincy, Mass., U.S.A. |
| Croll, Leslie Duncan | Med. 3 | 417 Clarence Ave. N., Saskatoon, Sask. |
| Crombie, Jean Mather | Arts 4 | 96 Westmount Blvd., Westmount, Que. |
| Cromwell, Alexander Ross | Ap. Sci. 4 (Ci.) | Cookshire, Que. |
| Crossley, Emily Helen | B.Sc., M.D. 4 | 125 Strathearn Ave., Montreal West, Que. |
| Crossley, Frances Grace | Phys. Ed. 1 | Windsor, N.S. |
| Crowe, Marguerite | Med. 3 | 856 Lorne Crescent, Montreal, Que. |
| Cruikshank, John Merrill | Med. 5 | 12 Olive St., St. John West, N.B. |
| Cumming, Jean | Arts P | 349 Beaconsfield Ave., Montreal, Que. |
| Cummings, Minnie | Soc. Workers 1 | 16 Grey Ave., Montreal, Que. |
| Cummins, John C | Arts P | 17 Golf Ave., St. John's Nfld. |
| Cunningham, Ernest Kenneth | Med 3 | Carman, Man. |
| Cunningham, Howe Symonds | Grad. Sch. | Truro, N.S. |
| Curbelo, Paul G. | Med. 5 | Arecibo, Porto Rico. |
| Curren, William Murray | Med. 1 | 177 Princess St., St. John, N.B. |
| Curtis, Harry Croyle | Med. 5 (Final) | Summerside, Somerset, Bermuda. |
| Cuthbertson, Arnold Craig | Arts 2 (B.Sc., Hon.) | 49 Glen Ave., Ottawa, Ont. |
| Cyr, Claude Clifford | Dent. 4 | Van Buren, Maine, U.S.A. |
| Dagg, Richard Earl | Dent. 1 | Shawville, Que. |
| Dainow, Joseph | Arts 2 | 139 Laurier Ave. W., Montreal, Que. |
| Daley, Louis William | Arts 1 (B.Sc. | 817 Glenwood Ave., Buffalo, New York, U.S.A. |
| Dalpé, William Guy | D.P.H | 1565 Park Ave., Montreal, Que. |
| Daly, William Stewart L. | Com. 1 | 217 LeBreton St., Ottawa, Ont. |
| Danford, Percy Thomas | Ap. Sci. 2 | 354 Hingston Ave., Montreal, Que. |
| Daniels, Eli | Med. 3 | 1910 Esplanade Ave., Montreal, Que. |
| Darby, George Bishop | Med. 3 | St. John's, Newfoundland. |
| d'Arcy, John Norman | Arts 2 (Hon.) | 342 Peel St., Montreal, Que. |
| Darling, Arthur Balfour | Ap. Sci. 4 (Ci.) | 73 St. Luke St., Montreal, Que. |
| Darling, James Douglas | Ap. Sci. 2 | 324 Old Orchard Ave., Montreal, Que. |
| Darling, Thomas Creighton | Ap. Sci. 1 | 78 St. Matthew St., Montreal, Que. |
| Darwin, Harry | Arts 1 | 215 Montclair Ave., Montreal, Que. |
| David, Sullivan Russell | Med. 3 | Trinidad, B.W.I. |
| Davidson, Gordon | Arts 1 | 210 Stanley St., Montreal, Que. |
| Davies, Thomas Richard | Arts 2 (Hon.) | Ste. Thérèse, Que. |
| Davis, Ezra | Phar. 1 | 240 Fairmount Ave. W., Montreal, Que. |
| Davis, Henry Roy Landerkin | Med. 3 | Milner, B.C. |
| Davis, Hugh Peter | Med. 3 | 49 Pearl St. W., Brockville, Ont. |
| Davis, Robert Bruce | Com. 2 | 37 Arthur St., Ottawa, Ont. |
| Davis, Roberts Samuel | Com. 3 | 157 Pretoria Ave., Ottawa, Ont. |
| Dawes, Charles Haddon | Arts 1 | Pointe Claire, Que. |
| Dawson, John Edward | B.Sc., M.D. 2 | 184 Mansfield St., Montreal, Que. |
| Dawson, Katherine Henderson | Arts 4 | 21 Bellevue Ave., Westmount, Que. |
| Day, Edwin Ethelbert | Med. 5 | 1663-17th Ave. W., Vancouver, B.C. |
| Day, John Jessup | Arts 1 | 280-44th Ave., Lachine, Que. |
| Deavitt, John Brownlow | Dent. 4 | 1631 Bloor St. W., Toronto, Ont. |
| de Belle, John Enerst | Med. 4 | 202 Dupuis Ave., Montreal, Que. |
| De Blois, Madeleine Edith | Arts 2 (B.Sc., Hon.) | Tweed, Ont. |
| de Bury, Hamilton Visart | Arts 2 | 297 Prince Arthur St. W., Montreal Que. |
| Decaire, Alexander | Com. 1 | Box 17, Bala, Ont. |
| Décary, Ernest Hector | Law 1 (B.C.L.) | 321 Peel Street, Montreal, Que. |
| DeHaitre, Leo | Med. 2 | L'Orignal, Ont. |
| Delahay, James Reginald | Med. 5 | 9 Allan Place, Ottawa, Ont. |
| de Launay, Josephine | Grad. Nurses | 254 Desparois St., Montreal, Que. |

| Name | Faculty and Year | Home Address |
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| Delcellier, Henri Aimé | Ap. Sci. 4 (Ci.) | 833 Outremont Ave., Outremont, Que. |
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| Demitre, Antony | Com. 1 | 45 Esplanade Ave., Montreal, Que. |
| Dempsay, Gordon Roberts | Med. 5 | Cochrane, New Ontario. |
| Dentith, Francis William H. | Ap. Sci. 3 (Chem.) | Spryfield, Halifax Co., N.S. |
| Dephoure, David Jacob (Cancelled Jan., 1924) | Arts 1 | 85 Des Carrières St., Montreal, Que. |
| DeRosia, Laurence A | Arts 1 | 363 Main St., Massena, New York, U.S.A. |
| Desbarats, Lucienne | Arts 3 (Hon.) | 757 University St., Montreal, Que. |
| Dewar, Gordon M (Cancelled Oct., 1923) | Com. 1 | 396 Wilbrod St., Ottawa, Ont. |
| Dewey, Kathleen Constance | Arts P | 60 Chesterfield Ave., Westmount, Que. |
| Dick, George McKinstry | Ap. Sci. 4 (Me.) | 80 Frontenac St., Sherbrooke, Que. |
| Dickson, Louise McGregor | Grad. Nurses | c/o Mr. S. Henderson, 183 Jamieson Ave., Toronto, Ont. |
| Dickson, Malcolm J. C. (Cancelled Nov., 1923) | Med. 2 | Victoria, B.C. |
| Dier, Hilton Heber | Med. 5 (Final) | 327-19th Ave. W., Calgary, Alta. |
| Diffley, John Walter | Com. P | 1777 Hutchison St., Montreal, Que. |
| Dimmock, Frederick | Grad. Sch. | 338 Arlington Ave., Ottawa, Ont. |
| Dineen, Frederick Joseph | Med. 4 | Sussex, N.B. |
| Dineen, Matthew Henry | Ap. Sci. 4 (Ci.) | 78 Durocher St., Montreal, Que. |
| Dingman, Robert Eric | Ap. Sci. 3 (Me.) | 15 Roxboro Drive, Toronto, Ont. |
| Dinsmore, George William H. | Med. 2 | St. Stephen, N.B. |
| Dinsmore, John Wilfrid | Dent. 4 | St. Stephen, N.B. |
| Dionne, Roger A | Med. 1 | 157 Wilbrod St., Ottawa, Ont. |
| Dixon, Meredith Fred | Ap. Sci. 2 | 219 Wilson Ave., Montreal, Que. |
| Djuricaitch, Luka Stojan | Med. 2 | Kremna, Uzice, Serbia. |
| Dobbie, Aggie Maud | Arts 4 (Hon.) | Lachute, Que. |
| Dobbin, Hilda Louise | Arts P | 31 Grey Ave., Montreal, Que. |
| Dobson, Joseph William | Med. 5 | Hillsboro, N.B. |
| Donawa, Victor Edson | Med. 3 | Port of Spain, Trinidad, B.W.I. |
| Donigan, Mau ice Lee | Dent. 4 | Magog, Que. |
| Donnelly, James Henry | Ap. Sci. 2 | 6871 Terrebonne St., Montreal, Que. |
| Donnelly, Russell Henry | Med. 5 | 167 Stanley St., Montreal, Que. |
| Donohue, Edward William | Ap. Sci. 4 (Ci.) | 85 St. Famille St., Montreal, Que. |
| Donovan, George James | Med. 5 | Woodstock, N.B. |
| Doran, Edward | Med. 2 | 20 Hodges St., North Andover, Mass. |
| Dorken, Marguerite Elenita | Arts P | 621 Carleton Ave., Westmount, Que. |
| Dorrance, Frank Sinton | Med. 5 (Final) | Suite 76, McLean Block, Edmonton, Alta. |
| Doubilet, Hyman (Double Course, B.A., M.D.) | Med. 1 Arts 3 | 50 Danté St., Montreal, Que. |
| Doubilet, Sydney Irving | Med. 5 | 50 Danté St., Montreal, Que. |
| Doudney, Violet Mary | Arts P | 107 Metcalfe St., Montreal, Que. |
| Dougall, Margaret | Arts 2 | Ste. Anne de Bellevue, Que. |
| Douglas, Allie Vibert | Grad. Sch. | 4193 Sherbrooke St., Westmount, Que. |
| Douglas, Percy Livingston | Ap. Sci. 4 (El.) | 2 Summerhill Ave., Westmount, Que. |
| Douglas, Robert Gordon | Med. 5 (Final) | 8710-104tn St., Edmonton, Alta. |
| Doull, Mary Frances | Arts 1 | Hill Head, Vernon, B.C. |
| Doushkess, Milton | Arts 2 (Hon.) | 4023 Dorchester St. W., Westmount, Que. |
| Dow, Dorothy Jeannette Y | Phys. Ed. 1 | "Chateau Blanc," Vaudreuil Stn., Que. |
| Dowd, Clinton Hamilton | Law 2 (LL.B.) | 13 Third Ave., Ottawa, Ont. |
| Dowd, James Lewiston | Med. 1 | 13 Third Ave., Ottawa, Ont. |
| Dowd, Joseph Everett | Med. 4 | 13 Third Ave., Ottawa, Ont. |
| Dowell, Willard Charles | Dent. 3 | 130 Gottingen St., Halifax, N.S. |
| Dowling, Christine Rose | Grad. Nurses | 46 Bishop St., Montreal, Que. |
| Dowling, Fred Vere | Med. 5 | Fine, New York, U.S.A. |

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| Doyle, Peter James | Med. 2 | 188 Columbus Ave., New York City, U.S.A. |
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| Dreger, Harry Carl | Med. 3 | 58 Courtland Ave., Kitchener, Ont. |
| Druckman, Isidor | Dent. 4 | 190 Pine Ave. E., Montreal, Que. |
| Drummond, Henry Andrew | Med. 5 (Final) | 18 Ste. Famille St., Montreal, Que. |
| Drysdale, Edna H (Cancelled Oct. 23rd, 1923) | Arts P | |
| Dubitsky, Minnie | Arts P | 13 Evans St., Montreal, Que. |
| Dubitsky, Moses | Arts P | 13 Evans St., Montreal, Que. |
| Dubord, Elianne Lucille | Arts 2 (Hon.) | Durlingville, Alta. |
| Dubrule, William Mossman | Arts 1 | Prescott, Ont. |
| Duckworth, John Martin C | Arts 1 | 1805 Blenheim St., Vancouver, B.C. |
| Duffy, St. Clair | Med. 4 | Kinkora, P.E.I. |
| Dufresne, George Louis | Ap. Sci. 1 | 4203 Dorchester St. W., Westmount, Que. |
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| Duncan, Alexander McLennan | Med. 1 | Campbellton, N.B. |
| Duncan, Alexander Willard | Com. 1 | 460 Argyle Ave., Westmount, Que. |
| Dunn, Louis Wilfrid | Med. 2 | Gaspereaux, P.E.I. |
| Dunn, Percy Roy | Med. 2 | Box 55, Gaspereaux, P.E.I. |
| Dunn, William Francis | Med. 2 | Box 55, Gaspereaux, P.E.I. |
| Dunne, Francis Sidney | Med. 3 | 56 College Ave., Ottawa, Ont. |
| Dunne, Gerald P | Med. 5 (Final) | St. Paul, Minnesota, U.S.A. |
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| Durley, Thomas Richard | Ap. Sci. 1 | 654 Rideau St., Ottawa, Ont. |
| Duval, Irene Byrd | Soc. Workers 2 | 2130 Hutchison St., Outremont, Que. |
| Duval, Luc | Grad. Sch. | Asbestos, Richmond Co., Que. |
| Duval, Robert Herbert | Arts 4 (B.Sc.) | 17 Victoria St., St. Johns, Que. |
| Dworkin, Simon | Med. 3 | 2226 St. Urbain St., Montreal, Que. |
| Dwyer, Charles Edward | Com. 1 | Drumheller, Alta. |
| Dyer, Warwick Stephen C | B.Sc., M.D. 2 | 40 High St., Georgetown, Demerara, B.W.I. |
| Dyer, William Robert | Med. 5 (Final) | Alberton, P.E.I. |
| Dyke, Meredith Harvie | Arts 4 (Hon.) | 369 Lansdowne Ave., Westmount, Que. |
| Eager, Richard Frederick | Med. 5 (Final) | 176 Second Ave., Ottawa, Ont. |
| Eaman, Stanley George | Arts 1 (B.Sc.) | 36 Charron St., Montreal, Que. |
| Eardley, Allworth | Arts P | 996 Dorchester St. W., Montreal, Que. |
| Eardley, Evelyn Laura Nellie | Arts 3 | 996 Dorchester St. W., Montreal, Que. |
| Easterbrook, John Edward | Arts 1 (B.Sc.) | 932 Aylwin St., Montreal, Que. |
| Eaton, George Outhit | Med. 5 | Truro, N.S. |
| Echenberg, Henry Lehrer | Law 3 (B.C.L.) | 60 Souvenir Ave., Montreal, Que. |
| Echenberg, Isidor | Med. 3 | Sherbrooke, Que. |
| Eddy, Earl Bronson | Arts 3 | Box 424, Brantford, Ont. |
| Eddy, William Thomas | Arts P | Sound Island, Placentia Bay, Nfld. |
| Edel, Abram | Arts 1 | 782 Shuter St., Apt. 22, Montreal, Que. |
| Edel, Leo | Arts 1 | 782 Shuter St., Montreal, Que. |
| Edelberg, Nathaniel Norman (Cancelled Nov. 15th, 1923) | Arts 1 | 1012 St. Urbain St., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Edward, Francis Alexander | Dent. 1 | |
| (Double Course, B.A., D.D.S.) | Arts 3 | Lacolle, Que. |
| Edwards, Margaret Christian | Grad. Sch. | 2 Mecklenburg St., St. John, N.B. |
| Egerton, Norman | Grad. Sch. | 862 Tupper St., Montreal, Que. |
| Eichenbaum, Margaret | Com. 1 | 2110 St. Urbain St., Montreal, Que. |
| Elder, Maureen | Med. 4 | P.O. Box 51, Wolfville, N.S. |
| Elderkin, Robert Ewart | Med. 5 | |
| | (Final) | Wolfville, N.S. |
| Eldridge, Kenneth Richard A | Arts 2 | |
| | (B.Sc., Hon.) | St. Mary's St., St. John's, Antigua, B.W.I. |
| Elliot, Eileen | Arts 3 | 183 Mercille Ave., St. Lambert, Que. |
| Elliot, Howard Lailey | Med. 1 | 496 Victoria Ave., Westmount, Que. |
| Elliot, Spencer Graham | Med. 5 | |
| | (Final) | Forget, Sask. |
| Elliot, Erwin Hughes | Com. 2 | 6544 Maple St., Vancouver, B.C. |
| Elliott, James Munro | Med. 5 | |
| | (Final) | 1138 Matthews Ave., Vancouver, B.C. |
| Ellis David Hepburn | Ap. Sci. 3 | |
| | (Mi.) | 203 Water St., St. John's, Nfld. |
| Ellison, Albert | Arts 3 | |
| | (Hon.) | 258 Jeanne Mance St., Montreal, Que. |
| Ellison, Audrey Ella | Soc. Workers 1 | 496 Oxford Ave., Montreal, Que. |
| Ellison, Hilda | Com. 1 | 258 Jeanne Mance St., Montreal, Que. |
| Ellison, Max | Ap. Sci. 2 | |
| (Double Course, Arts and Architecture) | (Arch.) and Arts 4 (Hon.) | 258 Jeanne Mance St., Montreal, Que. |
| Ellman, Isidore | Med. 2 | 199½ Douglas Ave., St. John, N.B. |
| Elvidge, Arthur Roland | Med. 5 | |
| | (Final) | 2331 Jeanne Mance St., Montreal, Que. |
| Emmons, William Frank | Med. 5 | 1311 The Crescent, Shaughnessy |
| | (Final) | Heights, Vancouver, B.C. |
| England, Esther Ritchie | Arts 3 | |
| | (Hon.) | 126 Bishop St., Montreal, Que. |
| Enzer, Emmanuel | Com. 3 | 309 Esplanade Ave., Montreal, Que. |
| Epstein, Elsie | Com. 1 | 2558 Park Ave., Montreal, Que. |
| Epstein, Samuel | Arts P | 1655 Mance St., Montreal, Que. |
| Erdrich, Harold Jack | Arts 1 | 50 St. Famille St., Montreal, Que. |
| Erlenborn, Willi | Grad. Sch. | 511 York St., Westmount, Que. |
| Erlich, Max | Phar. | |
| (Cancelled) | | |
| Esdale, William Rupert | Med. 4 | 11 Osborne Road, Ottawa, Ont. |
| Este, Charles H | | |
| (Cancelled Nov. 1st, 1923) | Arts 1 | Antigua, B.W.I. |
| Etziony, Mordka | Arts 1 | 232 Colonial Ave., Montreal, Que. |
| Evans, Charles Durward | Ap. Sci. 4 | |
| | (Me.) | 19 Claire Fontaine St., Quebec, Que. |
| Evans, John Maurice | Ap. Sci. 1 | 2121 Mance St., Montreal, Que. |
| Evans, Thomas Owen | Ap. Sci. 2 | 220 Prud'homme Ave., Montreal, Que. |
| Eve, Frank Maxwell | Ap. Sci. 3 | "Weylea," London Road, Guildford, |
| | (El.) | Surrey, England. |
| Eveleigh, Frederic Reeve | Com. 1 | 475 Roslyn Ave., Westmount, Que. |
| Evelyn, Melville Desmond | Med. 2 | 187 Edgecombe Ave., New York, N.Y. |
| Everett, Charles Douglas | Arts 3 | |
| | (Hon.) | Saint Andrew's, N.B. |
| Ewing, Estelle | Soc. Workers 1 | 168a Mansfield, St., Apt. 8, Montreal, Que. |
| Fair, Louisa Margaret | Grad. Sch. | 207 Mansfield St., Montreal, Que. |
| Fair, William | Ap. Sci. 1 | 2434-20th Ave., Rosemount, Que. |
| Fairbairn, John Macfarlane | Ap. Sci. 4 | |
| | (Me.) | 75 St. Luke St., Montreal, Que. |
| Fairbairn, Jean Roger | Arts 1 | 75 St. Luke St., Montreal, Que. |
| Fairbank, Charles Oliver | Com. 1 | Petrolia, Ont. |
| Fairbanks, Archibald Graham | Ap. Sci. 3 | |
| | (Me.) | 766 Sherbrooke St. W., Montreal, Que |
| Fairman, Frederick Williams | Com. 2 | 28 Rosemount Ave., Westmount, Que. |
| Faith, Willard Vanamber | Grad. Sch. | Winchester, Ont. |
| Fales Jones, Elizabeth (Mrs.) | Soc. Workers 1 | 31 High St., Sherbrooke, Que. |
| Falls, Francis Cuthbert B. | Com. 2 | Amherstburg, Ont. |
| Fanjoy, Ada Lilian | Phys. Ed. 1 | New Glasgow, N.S. |
| Farlinger, Gretchen | Phys. Ed. 2 | 18 Prospect Ave., Port Arthur, Ont. |
| Farmer, Eric Westover | Ap. Sci. 4 | |
| | (El.) | Box 111, Ste. Thérèse, Que. |

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|---|---|---|
| Farmer, Walter David | Med. 4 | Cumberland, Ont. |
| Farnworth, George Jarvis | Ap. Sci. 4 (Met.) | 226 Stanley St., Montreal, Que. |
| Farrar, Norman | Ap. Sci. 3 (Ci.) | Melbourne, Que. |
| Farrell, Alfred James | Ap. Sci. 4 (Me.) | 4874 Westmount Ave., Westmount, Que. |
| Featherston, Florence E. | Arts 1 | 331 Addington Ave., Montreal, Que. |
| Feeney, Neil | Med. 3 | 94 Pine Ave. W., Montreal, Que. |
| Feigelson, Hyman Emil | Arts 1 | 1400 Clarke St., Montreal, Que. |
| Feigenbaum, Jacob | Med. 5 | 1281 St. Urbain St., Apt. 3, Montreal, Que. |
| Feigenbaum, Moses | Law 1 (B.C.L.) | 1281 St. Urbain St., Apt. 3, Montreal, Que. |
| Feilders, Mary Gwendolyn | Arts 4 (Hon.) | 327 Wilson Ave., Montreal, Que. |
| Fellowes, Norton Alexander | Ap. Sci. 1, 2 (Arch.) | 60 Nelson Ave., Outremont, Que. |
| Fels, Gerald Oswald B. (Cancelled Oct. 1923) | Dent. 4 | 612 Victoria Ave., Westmount, Que. |
| Fels, Moses Abraham | Law 3 (B.C.L.) | 87 Esplanade Ave., Montreal, Que. |
| Fels, Sol | Law 2 (B.C.L.) | 87 Esplanade Ave., Montreal, Que. |
| Ferguson, James Abner | Med. 5 | Cumberland, Ont. |
| Ferguson, Marion Elizabeth | Arts 1 (B.Sc.) | 4821 St. Catherine St. W., Westmount, Que. |
| Ferguson, Percival Fergus | Arts P | Valleyfield, Que. |
| Ferguson, William Patterson | Ap. Sci. 4 (Mi.) | 510 Gilmour St., Ottawa, Ont. |
| Fergusson, Ruth May | Arts 4 (Hon.) | 4708 Western Ave., Westmount, Que. |
| Ferrabee, Francis Gilbert | Ap. Sci. 4 (Me.) | 731 Sherbrooke St. W., Montreal, Que. |
| Field, Beryl Eileen | Phys. Ed. 1 | 51 Neptune Blvd., Strathmore, Que. |
| Fife, Harry Moore | Grad. Sch. | 4280 Dorchester St., Westmount, Que. |
| Fife, John Kieth Munroe | Med. 5 (Final) | 24 Lemarchand Apts., Edmonton, Alta. |
| Findlay, Robert Elliott | Ap. Sci. 2 | Compton Station, Que. |
| Findlay, Stanley Peter | Med. 5 | 1368 Hornby St., Vancouver, B.C. |
| Findlay, William Fraser | Ap. Sci. 4 (Me.) | Carleton Place, Ont. |
| Fineberg, Sadye | Soc. Workers | 185 Esplanade Ave., Montreal, Que. |
| Finkelstein, Moses Nat. | Med. 3 | 1762 Clarke St., Montreal, Que. |
| Finkelstein, Norman Forman | Dent. 2 | 484 Champagneur Ave., Montreal, Que. |
| Finlayson, Archie Wallace | Ap. Sci. 4 (Ci.) | 5989 Monkland Ave., Montreal, Que. |
| Finlayson, Stuart Milner | Ap. Sci. 4 (El.) | 2342 Hutchison St., Outremont, Que. |
| Finley, Elizabeth Hamilton | Arts P | 273 Bishop St., Montreal, Que. |
| Finley, Frederick Lovell | Grad. Sch. | 273 Bishop St., Montreal, Que. |
| Finney, William Harper | Med. 3 | 702 Outremont Ave., Outremont, Que. |
| Fish, Nathan | Phar. 1 | 61 St. Dominique St., Quebec, Que. |
| Fisher, Frank L. | Med. 5 (Final) | Truro, N.S. |
| Fisher, Trenholm Lawrence | Med. 3 | 231 Polson Ave., Winnipeg, Man. |
| Fitch, Benjamin | Arts 1 | 640 St. Lawrence Blvd., Montreal, Que. |
| FitzGibbon, Olive | Grad. Nurses | 6 Lorne Ave., Montreal, Que. |
| Fitzmaurice, Lawrence Wylie | Med. 5 | New Glasgow, N.S. |
| Fleet, George Alexander | Grad. Sch. | 142 Crescent St., Montreal, Que. |
| Fleming, Canmore Drake | Ap. Sci. 4 (Me.) | 1015 Sandwich St. W., Windsor, Ont. |
| Fletcher, Jane Davis | Soc. Workers 1 | 45 Spadina Road, Toronto, Ont. |
| Fletcher, Walter Reed | Med. 5 | 415 Euclid Ave., Toronto, Ont. |
| Flinders, Matthew G. S. (Cancelled Dec. 13, 1923). | Arts 1 | 1 Duchess St., Portland Place, London England. |
| Flinn, Robert S. (Cancelled Oct., 1923). | Med. 2 | Prescott, Arizona, U.S.A. |
| Foggo, Norman Oliphant M | Ap. Sci. 4 (Met.) | 918-20th Ave. W., Vancouver, B.C. |
| Fogul, Harry | Arts 2 (Hon.) | 89 Villeneuve St. W., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Fong, William Hin | Ap. Sci. 1 | 166 St. Urbain St., Montreal, Que. |
| Forbes, John Campbell | Grad. Sch. | Milford, N.S. |
| Forbes, Robert Clarence | Ap. Sci. 4 (Ci.) | 423 Lansdowne Ave., Westmount, Que. |
| Ford, Ruth Dudley | Phys. Ed. 2. | 140 Cottage St., New Haven, Conn., U.S.A. |
| Forrest, James Roberts | Med. 5 | 191 St. Famille St., Montreal, Que. |
| Forrester, Alexander Vaughan | Med. 5 (Final) | 1018 Amphion St., Victoria, B.C. |
| Forsey, Eugene Alfred | Arts 3 (Hon.) | 187 Fourth Ave., Ottawa, Ont. |
| Forster, David Stewart | Med. 5 | 262 Decelles Ave., Montreal, Que. |
| Fortune, Robert V. | Arts 3 | 432 Wellington St., Sault Ste. Marie, Ont. |
| Foster, Joan Mary Vassie | Grad. Sch. | 36 Coburg St., St. John, N.B. |
| Fotheringham, John Popham | Ap. Sci. 4 (Me.) | 824 Echo Drive, Ottawa, Ont. |
| Fotos, John | Arts 4 (Hon.) | 693 Shuter St., Montreal, Que. |
| Fotos, Helen | Arts 4 (Hon.) | 693 Shuter St., Montreal, Que. |
| Fowler, Alan Frederick | Med. 3 | 542 King Edward Ave., Ottawa, Ont. |
| Fowler, Douglas Bradshaw | Med. 5 | Raymond, Alta. |
| Fox, George Lefferts, Jr | Med. 5 (Final) | 27 Owens St., Hartford, Conn., U.S.A. |
| Fox, Tovia | Med. 2 | 447 St. Lawrence Blvd., Montreal, Que. |
| Foy, Albert Joseph | Ap. Sci. 4 (Me.) | 71 Clandeboye Ave., Westmount, Que. |
| Fraid, Bertram Kellert | Com. 1 | 4069 Tupper St., Westmount, Que. |
| Francis, Francis | Ap. Sci. 1 | 444 Prince Albert Ave., Westmount, Que. |
| Francis, Selby Wilson | Arts 1 | Broad Cove, Newfoundland. |
| Frank, Moses | Law 3 (LL.B.) | 357 Esplanade Ave., Montreal, Que. |
| Frankel, Edgar Gottschall | Arts 1 (B.Sc.) | 460 Strathcona Ave., Westmount, Que. |
| Franklin, Richard Eben | Arts 3 | Maxville, Ont. |
| Fraser, Clarice Barbara | Arts 4 | 144 Hampton Ave., Montreal, Que. |
| Fraser, Donald Scott | Med. 5 (Final) | Box 520, New Glasgow, N.S. |
| Fraser, George Edward | Dent. 1 | Souris, P.E.I. |
| Fraser, James Gordon | Com. 1 | 380 Elgin St., Ottawa, Ont. |
| Fraser, James Oliphant | Med. 5 (Final) | 236 Duckworth St., St. John's, Nfld. |
| Fraser, John Douglas | Ap. Sci. 3 (Me.) | 59 Coburg Road, Halifax, N.S. |
| Fraser, Peter Grant | Com. 1 | Bridgeville, N.S. |
| Fraser, Simon Bartlett | Med. 2 | Williamstown, Ont. |
| Freedman, Ernest Orkin | Arts 3 (Hon.) | 366 Kensington Ave., Westmount, Que. |
| Freedman, Hyman | Arts 1 (B.Sc.) | 110 Chenneville St., Montreal, Que. |
| Freedman, Joseph | Med. 5 (Final) | 173 George V. St., Lachine, Que. |
| Freedman, Louis | Arts 1 | 280 St. Urbain St., Montreal, Que. |
| Freedman, Leon Dave (Double Course, B.A., M.D.) | Med. 1 Arts 3 | 2350 St. Urbain St., Montreal, Que. |
| Freedman, Margery Adèle | Arts P | 439 Prince Albert Ave., Westmount, Que. |
| Freedman, Nathan | Grad. Sch. | 224 Park Ave., Montreal, Que. |
| Freedman, Pearl Riva | Arts 2 | 366 Kensington Ave., Westmount, Que. |
| Freeman, Harold Sydney | Law 1 (B.C.L.) | 1914 Mance St., Montreal, Que. |
| French, Dorothy W. | Grad. Nurses | Wingham, Ont., Box 454. |
| Friedman, Bernice Lucille | Arts P | 1666 Hutchison St., Montreal, Que. |
| Friedman, Edward Adolph | Com. 3 | 318 Elm Ave., Westmount, Que. |
| Friedman, Victor E (Cancelled Oct., 1923). | Ap. Sci. 4 (Me.) | 322 Elm Ave., Westmount, Que. |
| Frith, John Rowland | Ap. Sci. 1 | 131 Mt. Pleasant Ave., St. John, N.B. |
| Frohlich, Louis Isidore | B.Sc., M.D. 3. | 1656 Clarke St., Montreal, Que. |
| Frosst, John Burr | Med. P | 17 Forden Ave., Westmount, Que. |
| Fry, Arthur Wentworth | Ap. Sci. 1 | 29 Bellevue Ave., Westmount, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Fry, Edmund Botterell | Ap. Sci. 4 (Me.) | 29 Bellevue Ave., Westmount, Que. |
| Fullerton, Charles Watson | Med. 4 | 57 Clandeboye Ave., Westmount, Que. |
| Fulmer, Frank D | Med. 5 (Final) | Edson, Alta. |
| Furness, George Winston C | Ap. Sci. 4 (El.) | Vernon Bridge, P.E.I. |
| Furois, Louis Philippe | Ap. Sci. 3 (Arch.) | La Tuque, Champlain Co., Que. |
| Gaboury, Marcel | Law 2 (B.C.L.) | 324a St. Catherine St. W., Montreal, Que. |
| Gaetz, Thomas Harold | Med. 5 (Final) | 11120-86th Ave., Edmonton, Alta |
| Gagnon, Moïse Joseph | Grad. Sch. | 152 Des Commissaires St., Quebec, Que. |
| Gallay, Esther E | Arts 3 (B.Sc.) | 117 St. Joseph Blvd. W., Montreal, Que. |
| Gallay, Minnie | Med. 3 | 1526-13th Ave. W., Calgary, Alta. |
| Gallery, Rose Mary | Phys. Ed. 2 | 221 MacDougall St., Outremont, Que. |
| Galley, Harry Andrew | Com. 3 | Vankleek Hill, Ont. |
| Gameroff, Myer | Law 2 (B.C.L.) | 83a-7th Ave., Lachine, Que. |
| Gammell, Robert Gordon M | Arts 1 | 94 Durocher St., Montreal, Que. |
| Garcin, Cecil Redvers | Med. 4 | Curling, Newfoundland. |
| Gardner, Abram | Com. 2 | 96 King St., Quebec, Que. |
| Gardner, Edwin Alexander | Ap. Sci. 2 (Arch.) | 119 Broadway Ave., Ottawa, Ont. |
| Gardner, William Harvey | Arts 3 (Hon.) | Pekisko, Alta. |
| Garelick, Alex (Double Course, B.A., M.D.) | Arts 2 | 2055 Clark St., Montreal, Que. |
| Gaslin, Thomas James | Med. 4 | North Lancaster, Ont. |
| Gately, Jerome Joseph | Med. 3 | 95 Hutchison St., Montreal, Que. |
| Gatenby, Ellis | Dent. 3 | 94 Fifth Ave., North Bay, Ont. |
| Gaukrodger, Clement | Arts P | Greenfield Park, Que. |
| Gauthier, Donat Auguste | Ap. Sci. 3 (Me.) | 25 Regent St., Ottawa, Ont. |
| Gauthier, Louis Joseph E | Law 1 (B.C.L.) | 690 Sherbrooke St. W., Montreal, Que. |
| Gauthier, Paul | Law 2 (B.C.L.) | 690 Sherbrooke St. W., Montreal, Que. |
| Gauvin, Herré Alfred | Ap. Sci. 1 | Clifton Apts., Ottawa, Ont. |
| Gavsie, William Harold | Med. 3 | 790 Victoria Road, Sydney, N.S. |
| Geddes, Aubrey Kent | Med. 5 (Final) | Box 30, Truro, N.S. |
| Geddes, Lloyd Fulton | Ap. Sci. 4 (El.) | Great Village, Colchester Co., N.S. |
| Gegg, Richard Conrad | Grad. Sch | "Fareham," Broadwood Road, Hongkong, China. |
| Gelineau, Joseph C (Cancelled Nov., 1923) | Com. 1 | Kankakee, Illinois, U.S.A. |
| Gemeroy, Joseph Conrad | Med. 4 | Winchester, Ont. |
| German, Leland Erle | Med. 5 (Final) | 11716-129th Ave. West, Edmonton, Alta. |
| Gibbon, Hubert S. Vroom | Com. P. and Ap.Sci. 1, 2. (Arch.) | 161 Douglas Ave., St. John, N.B. |
| Gibbon, Murray Fox | Arts 4 (Hon.) | Ste. Anne de Bellevue, Que. |
| Giblin, Norris | Grad. Sch. | Outremont, Que. |
| Gibson, Marjorie Helen | Phys. Ed. 2 | Franklin Centre, Que. |
| Giles, B. H. Drummond (Cancelled Oct., 1923) | Ap. Sci. 3 (Met.) | 1036 Dorchester St. W., Montreal, Que. |
| Gill, Evan William T | App. Sci. 3 (Mi.) | 281 O'Connor St., Ottawa, Ont. |
| Gillander, Erwin Wade | Med. 3 | 26 Easton Ave., Montreal West, Que. |
| Gillespie, Mildred Rice | Arts 2 (Hon.) | Abbotsford, Que. |
| Gillett, George Herbert | Ap. Sci. 4 (El.) | 7 Weredale Park, Westmount, Que. |
| Gilletz, Colly | Ap. Sci. 2 | 2372 Waverley St., Montreal, Que. |
| Gillies, Helen M | Arts 4 | 205 Mance St., Montreal, Que. |
| Gillies, James Noel | Med. 4 | Port Daniel Centre, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Gillingham, Herbert H. A. | Arts P | St. John's, Newfoundland. |
| Gillson, Reginald Eric | Med. 3 | 591 University St., Montreal, Que. |
| Gilman, Mabel Phinney | Arts 2 (Hon.) | La Tuque, Que., Box 186. |
| Gilmore, Katherine Mary C. | Phys. Ed. 2 | 1332 Lajoie Ave., Outremont, Que. |
| Gilmour, Thomas Walker | Arts 1 | 256 Prince Arthur St., Montreal, Que. |
| Gilmour, William Alexander T. | Ap. Sci. 3 (Me.) | 30 Undermount Ave., Hamilton, Ont. |
| Gilpin, Alfred Oliver | Com. 3 | 121 Bishop St., Montreal, Que. |
| Gincherman, Abie | Med. 5 | 1511 Mance St., Montreal, Que. |
| Ginn, George Willis C | Grad. Sch. | Richmond, Que. |
| Ginsberg, Reuben | Phar. P | 2075 Hutchinson St., Montreal, Que. |
| Girard, Annette Marie L. (Cancelled Jan., 1924) | Arts 1 (B.Sc.) | c/o Shredded Wheat Co., Niagara Falls, N.Y., U.S.A. |
| Girard, Mark A | Med. 2 | 620 De L'Epée Ave., Montreal, Que. |
| Girroir, Francis H. (Mrs.) | Soc. Workers | 272 Bay St., Ottawa, Ont. |
| Gittleson, David A. | Com. 3 | Box 547, St. John's, Newfoundland. |
| Glasberg, Clara | Arts P | 5 Deacon Road, Outremont, Que. |
| Glassco, Ivan Russell | Ap. Sci. 2 (Arch.) | 193 Charlton Ave. W., Hamilton, Ont. |
| Glassco, John Grant | Com. 2 | 2 Evergreen Place, Winnipeg, Man. |
| Glassco, William Girdlestone | Med. 3 | 242 James St. S., Hamilton, Ont. |
| Glasser, Samuel Thomas | Med. 2 | 1425 Grand Concourse, New York City, U.S.A. |
| Glazer, Louis | Law 3 (B.C.L.) | 33 Chabouillez Sq., Montreal, Que. |
| Gleason, Myrtle | Grad. Nurses | 395 Northcliffe Ave., Montreal, Que. |
| Glennie, Donald Robertson | Com. 2 | Oxford, N.S. |
| Glickman, Gladys | Arts P | 328 Redfern Ave., Westmount, Que. |
| Glickman, Harry | Med. 5 | 328 Redfern Ave., Westmount, Que. |
| Glickman, Harry C | Arts 1 | 2518 Park Ave., Montreal, Que. |
| Glickman, Theresa | Arts P | 320 Elm Ave., Westmount, Que. |
| Goddard, Arthur Lawrence | Med. 3 | "Sunnyside," Fontabelle, Barbados, B.W.I. |
| Godet, Thomas Martin duB (Cancelled Jan., 1924) | Ap. Sci. 2 | "Girvan Bank," Paget West, Bermuda. |
| Godfrey, Edna Westbrook | Phys. Ed. 2 | 825 Wilder Ave., Outremont, Que. |
| Godine, Frank Melvyn | Arts 2 (Hon.) | 11 Souvenir Ave., Montreal, Que. |
| Godinsky, Samuel | Arts 1 | 2106 St. Lawrence Blvd., Montreal, Que. |
| Godinsky, Kate | Arts P | 2106 St. Lawrence Blvd., Montreal, Que. |
| Goldapple, Jack | Phar. P | 66 St. Marguerite St., Quebec, Que. |
| Goldapple, Harold Arnold | Dent. 2 | 1529 Park Ave., Montreal, Que. |
| Goldberg, Joseph | Med. 1, 2 | 2697 St. Hubert St., Montreal, Que. |
| Goldberg, Maurice | Phar. 2 | 727a Cadieux St., Montreal, Que. |
| Goldblatt, Aaron | Med. 3 | 841 Cadieux St., Montreal, Que. |
| Goldenberg, Max | Dent. 3 | 1555 Esplanade Ave., Montreal, Que. |
| Goldenberg, Morris | Law 1 (B.C.L.) | Campbellton, N.B. |
| Goldie, Alexander Gibson | Ap. Sci. 1 | 1 Brant Road, Galt, Ont. |
| Goldman, Louis | Med. 5 | 104 Laval Ave., Montreal, Que. |
| Goldman, Sanford | Dent. 1 | 26 Wall St., St. John, N.B. |
| Goldstein, Ernest | Arts 1 (B.Sc.) | 1203 Cadieux St., Montreal, Que. |
| Golt, Harold S (Cancelled Dec. 13th, 1923) | Com. 1 | 527 Durocher St., Montreal, Que. |
| Good, George A (Cancelled Nov., 1923) | Med. 4 | Woodstock, N.B. |
| Goodall, Ernest Lorne | Ap. Sci. 4 (Me.) | 60 Buena Vista, Ottawa, Ont. |
| Goodchild, Charles Edward | Com. 2 | 15 Garner St. South Norwalk, Conn., U.S.A. |
| Goodhart, Annie N. (Cancelled Nov. 15th, 1923) | Arts P | 869 St. Dominique St., Montreal, Que. |
| Goodman, Lawrence | Dent. 3 | 575 Cadieux St., Montreal, Que. |
| Goodnoh, Scott Tracy | Dent. 2 | 25 Hollywood St., Worcester, Mass. U.S.A. |
| Gordon, Athol Keith (Cancelled January, 1924) | Arts 1 | 172 Fourth Ave., Ottawa, Ont. |
| Gordon, Betty | Phys. Ed. 2 | 330 N. College Ave., Sarnia, Ont. |

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| Gordon, Charles Howard | Ap. Sci. 4 (Mi.) | 1018 Queen Mary Road, Montreal, Que. |
| Gordon, John | Ap. Sci. 3 (Me.) | 1018 Queen Mary Road, Montreal, Que. |
| Gordon, Louis Hutchinson | Ap. Sci. 1 | Box 117, Glace Bay, N.S. |
| Gordon, Ney Kingsley | Com. 1 | Wallaceburg, Ont. |
| Gordon, Samuel | Arts 1 | 677 St. Urbain St., Montreal. Que. |
| Gordon, Thomas Miles | Arts 1 | 330 N. College Ave., Sarnia, Ont. |
| Gordon, William Laurence | Grad. Sch. | R.R. No. 1, Lachute, Que. |
| Gore, Graham Martin | Arts 1 (B.Sc.) | Spencerville, R.R. No. 5, Ont |
| Gorelick, Eli | Med. 5 (Final) | 193 Mance St., Montreal, Que. |
| Gornitsky, Israel | Dent. 3 | 20 Rivard St., Montreal, Que. |
| Gorrie, Graeme Yates | Arts 2. (Hon.) | 811 University St., Montreal, Que. |
| Goucher, Henry Gordon | Com. 3 | Middleton, N.S. |
| Gougeon, Elzear Napoleon | Ap. Sci. 3 (Me.) | 40 McGill College Ave., Montreal, Que. |
| Gould, Vincent Clarence | Com. 1 | 1531 Benson St., New York City, U.S.A. |
| Gradinger, Arnold Samuel | Med. 2 | 106 Bourget St., Montreal, Que. |
| Gradinger, Bernard L | Arts 1 | 106 Bourget St., Montreal, Que. |
| Gradinger, Charles Hyman | Med. 5 | 106 Bourget St., Montreal, Que. |
| Gradinger, Samuel Arthur | Arts 1 (B.Sc.) | 613 Notre Dame St. W., Montreal, Que |
| Graham, Ernest Edward | Med. 4 | Strathcona Ave., Westboro, Ont. |
| Graham, Howard Carson | Med. 5 (Final) | Kemptville, Ont. |
| Graham, Muriel Jean | Arts 3 | Arundel, Que. |
| Graham, Wallie White | Ap. Sci. 3 (Me.) | 593 Seventh Ave., Rosemount, Que. |
| Granger, Marjorie | Arts 3 (Hon.) | 696 Victoria Ave., Westmount, Que. |
| Granger, Ruth Frances | Arts 1 (B.Sc.) | 532 Dufferin Ave., London, Ont. |
| Granik, Abraham | Ap. Sci. 3 (Chem.) | 437 Esplanade Ave., Montreal, Que. |
| Grant, A. F. (Cancelled Nov. 15th, 1923) | Arts 1 | Toronto, Ont. |
| Grant, Elizabeth Rhoda | Arts 4. (Hon.) | 95 McCulloch Ave., Outremont, Que. |
| Grant, Samuel Constantine | Med. 2 | Frankfield, Jamaica, B.W.I. |
| Grant, William Harold Skeith | Dent. 3 | 4332 Montrose Ave., Westmount, Que |
| Grassick, Gordon Henry | Med. 3 | 1604-16th Ave., Regina, Sask. |
| Gravel, Arthur Lafayette | Ap. Sci. 4 (El.) | 451 Clarke Ave., Westmount, Que. |
| Gravel, Edith Aimée | Com. 1 | 451 Clarke Ave., Westmount, Que. |
| Gravel, Paul Stanislaus (Cancelled Jan. 28th, 1924.) | Ap. Sci. 1 | 451 Clarke Ave., Westmount, Que. |
| Gray, Donald Alexander | Ap. Sci. 3 (Me.) | 976 Tupper Street, Montreal, Que. |
| Gray, Leona Isabella M | Arts 1 | 25 Chomedy St., Montreal, Que. |
| Greaves, Harold Layland | Dent. 3 | 508 Victoria Ave., Westmount, Que. |
| Green, Elizabeth Barbara | Arts 1 | Cranbrook, B.C. |
| Green, Frederick | Grad. Sch. | 28 Mackay St., Montreal, Que. |
| Green, John Loder | Med. 3 | 208 Erie Ave., Brantford, Ont. |
| Greenberg, Harry | Ap. Sci. 3 (Chem.) | 1088 St. Dominique St., Montreal, Que. |
| Greenberg, Milton | Med. 2 | 402 East 136th St., New York City, U.S.A. |
| Greenblatt, Michael | Arts 4. (Hon.) | 215 Esplanade Ave., Montreal, Que. |
| Greene, Eileen | Com. 2 | 823-106th St., Edmonton, Alta |
| Greene, Harold William | Dent. 1 | 615 Rochester St., Fulton, New York, U.S.A. |
| Greenhall, Armand Lawrence | Med. 4 | 600 West 116th St., New York City, U.S.A. |
| Greenspoon, Saul George | Phar. 2 | 30 De Grandpré St., Montreal, Que. |
| Greer, James Bruce (Cancelled Feb. 6th, 1924.) | Dent. 1 | Welland, Ont., Box 816. |
| Greer, William Mills | Med. 3 | 4289 Dorchester St., Westmount, Que. |
| Gregory, Hurd Anthony F | Ap. Sci. 2 | Acacia Grove, Fredericton, N.B. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Gregson, William Ewart | Med. 4 | 1415 Fort St., Victoria, B.C. |
| Grew, Eleanor | Grad. Nurses 1. | 161 Manor Ave., Rockliffe, Ottawa, Ont. |
| Grier, George Arthur | Arts 2 | 65 Ontario Ave., Montreal, Que. |
| Griffin, Winnifred | Arts 2 (Hon.) | 20 Bayle St., Montreal, Que. |
| Griffith, James Jeffrey | Med. 5 (Final) | 221 Peel St., Montreal, Que. |
| Grimson, George Andrew | Com. 2 | 328 Hingston Ave., Montreal, Que. |
| Groleau, Arnold John | Ap. Sci. 1 | 84 Chesterfield Ave., Westmount, Que. |
| Gross, Isidore | Arts 1 | 115 Laurier Ave. W., Montreal, Que. |
| Gross, John Harley | Arts 1 | 377 Beaconsfield Ave., Montreal, Que. |
| Gross, Philip Norcross (Cancelled Oct. 1923.) | Ap. Sci. 3 (Ci.) | 149 Drummond St., Montreal, Que. |
| Grossman, Myer | Med. 3 | 612 City Hall Ave., Montreal, Que. |
| Groulx, Rosamond Isadore | Phys. Ed. 1 | Valleyfield, Que. |
| Gunn, William George | Med. 5 (Final) | 546 Broadway W., Vancouver, B.C. |
| Gurd, Constance | Arts P | 426 Mackay, Montreal, Que. |
| Gurd, Jean Marjorie Slessor | Arts 3 (Hon.) | 124 Bishop St., Montreal, Que. |
| Gurvitch, Samuel | Arts 1 | 1531 Hutchison St., Montreal, Que. |
| Gutelius, Isabel Eaton | Arts 1 | 341 Kensington Ave., Westmount, Que. |
| Guttman, Rachel | Arts P | 1570 Mance St., Montreal, Que. |
| Guy, George Franklyn | Com. 2 | 451 Echo Drive, Ottawa, Ont. |
| Gwyn, Cyril Postle | Arts P | 74 Court St., Sherbrooke, Que. |
| Gwynne, Jean Marjorie | Arts 1 | 448 Notre Dame St., St. Lambert, Que. |
| Hachey, Harry Benedict | Grad. Sch | W. Bathurst, N.B. |
| Haight, Russell Watt (Cancelled Jan. 28th, 1924) | Ap. Sci. 1 | 49 Portland Ave., Sherbrooke, Que. |
| Hainlen, Edgar Willis | Med. 5 (Final) | Asheville, North Carolina, U.S.A. |
| Halfyard, Byron Elias M (Cancelled March 10th, 1924.) | Med. 2 | 23 Cornell St., St. John's, Nfld. |
| Hall, Alan Beardmore | Med. 3 | Nanaimo, B.C. |
| Hall, Earle Reginald | Med. 5 (Final) | Nanaimo, B.C. |
| Hall, Edmund Brinton | Med. 4 | Bridgetown, N.S. |
| Hall, Gertrude May | Grad. Nurses | Hazelridge, Man. |
| Hall, Henry Foss | Arts P. and Phys. Ed. P | 201 Linden St., Sherbrooke, Que. |
| Hall, Herbert D | Ap. Sci. 1 | 166 Warren Road, Toronto, Ont. |
| Hall, Noel Bathurst | Med. 3 | Browns Town, Jamaica, B.W.I. |
| Hall, Norman Douglas | Med. 4 | 115 Machleary St., Nanaimo, B.C. |
| Hall, Robert | Grad. Sch | Cornwall, Ont. |
| Halpenny, Merle B | Ap. Sci. 3 (Me.) | 2248 Mance St., Montreal, Que. |
| Halperin, Joshua Sydney | Med. 5 | 1461 St. Lawrence Blvd., Montreal, Que. |
| Halperin, Mildred Rose | Arts P | 1461 St. Lawrence Blvd., Montreal, Que. |
| Ham, Norman (Cancelled Jan. 1924.) | Arts 1 (B.Sc.) | Box 140 Brantford,, Ont. |
| Hambly, John Arthur | Arts 2 (B.Sc., Hon.) | Buckingham, Que. |
| Hamel, Joseph Albert | Ap. Sci. 4 (Ci.) | 50 Notre Dame St., Three Rivers, Que. |
| Hamilton, Desmond Russell | Com. 3 | 99 Glen Rose Ave., Toronto, Ont. |
| Hamilton, Edward Henry Prior | Arts 1 (B.Sc.) | Midvale, Utah, U.S.A. |
| Hamilton, Eleanor | Arts P | 287 Mountain St., Montreal, Que. |
| Hamilton, Frederick Wright | Ap. Sci. 1 | 515 Victoria Ave., Westmount, Que. |
| Hamilton, John Stewart M | Med. 4 | 2756 Christopher Columbus St., Montreal, Que. |
| Hamilton, Mary | Phys. Ed. 1 | 49 Elm St., Potsdam, New York, U.S.A. |
| Hamilton, Robert M.P | Ap. Sci. 3 (Met.) | Midvale, Utah, U.S.A. |
| Hamilton, Robert Stamford | Med. 5 (Final) | 1420 Fort St., Victoria, B.C. |
| Hammond, George Henry | Grad. Sch | Aylmer, Que. |
| Hammond, William | Med. 3 | 245 W. 261st St., New York City, U.S.A. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Hampson, Harold Ralph | Arts 4. (Hon.) | 7 Ontario Ave., Montreal, Que. |
| Hanlan, Leamon Houston | Grad. Sch. | Kapuskasing, Ont. |
| Hanna, Edward Richard | Com. 1 | 228 Emma St., Sarnia, Ont. |
| Hanna, Robert James E | Med. 3 | Perth, Ont. |
| Hansard, Hugh Gerard Hazen | Arts 2. | 48 Linton Apts., Montreal, Que. |
| Harbert, Elizabeth Grace | Arts P. | 284 Marlowe Ave., Montreal, Que. |
| Harbottle, Edwin Clendon | Med. 3 | Box 125, Gainsborough, Sask. |
| Hardin, Samuel Hershel | Dent. 3 | Edmonton, Alta. |
| Harding, Thomas Ernest W. | Med. 4. | Brockville, Ont. |
| Harker, George Clarke | Arts 1. (B.Sc.) | 484 Lansdowne Ave., Toronto, Ont. |
| Harris, Arthur | Med. 2 | 2429 Notre Dame St. W., Montreal, Que. |
| Harris, Richard Colebrook | Grad. Sch. | New Denver, B.C. |
| Harris, Sydney Louis | Med. 5 | 375 Lisgar St., Ottawa, Ont. |
| Harris, Theodore Herbert | Arts 2. (Hon.) | 2678 Park Ave., Montreal, Que. |
| Harrison, Isadore (Cancelled Nov. 28th, 1923.) | Dent. 1 | Brainard Station, New York, U.S.A. |
| Harrison, Winston Franklin | Med. 3 | Port Stanley, Ont. |
| Hart, Alan Keith Edmund | Ap. Sci. 1 | Montego Bay, Jamaica, B.W.I. |
| Hart, David Lionel | Com. 1 | 2617 Mance St., Montreal, Que. |
| Hart, Gordon David | Com. 3 | 600 Argyle Ave., Westmount, Que. |
| Hart, Grace | Arts 2. (Hon.) | 757 Lansdowne Ave., Westmount, Que. |
| Hart, Laurence | Arts 1 | 600 Argyle Ave., Westmount, Que. |
| Hart, Stanley David | Com. 1 | 368 Elm Ave., Westmount, Que. |
| Harvey, George Douglas | Ap. Sci. 1 | Tomifobia, Que. |
| Hasley, Isobel Jean | Arts 1 | 1328 Lajoie Ave., Outremont, Que. |
| Hatcher, William Sork | Arts 4. | Rose Blanche, Newfoundland. |
| Hausner, Isidore David | Com. 1 | 31 Ste. Catherine Road, Montreal, Que. |
| Hawley, Laurance Edwin | Med. 2 | Clarenceville, Que. |
| Hay, Dorothea Jane | Arts 4. (Hon.) | 654 Dallas Road, Victoria, B.C. |
| Hay, John Stuart | Ap. Sci. 1 | Lachute, Que. |
| Hayes, Harrison C. | Com. 2 | Frelighsburg, Que. |
| Hayes, John Milton (Cancelled Jan. 28th, 1924) | Ap. Sci. 1 | 35 Beloeil Ave., Montreal, Que. |
| Hayes, Robert Thomas | Med. 3 | 1 Mt. Pleasant Ave., St. John, N.B. |
| Hayes, Roland Earle | Ap. Sci. 4. (Mi.) | 329 James St., Ottawa, Ont. |
| Hayes, Ross Newlands | Com. 1 | 142 Christina St., Sarnia, Ont. |
| Hayes, Saul | Arts 1 | 7 Winchester Ave., Westmount, Que. |
| Hazlewood, Evelyn Leone | Grad. Nurses 1. | 22 High St., Brantford, Ont. |
| Hearn, James Gabriel | Ap. Sci. 2 | 84 Grande Allée, Quebec, Que. |
| Heaton, Phyllis | Arts P. | 60 Westmount Blvd., Westmount, Que. |
| Heeney, Carden Thomas | Ap. Sci. 2 | 240 Powell Ave., Ottawa, Ont. |
| Heilig, Harry | Com. 2 | 29 West Demontigny St., Montreal, Que. |
| Helal, Joseph | Law 1. (B.C.L.) | 112 St. Timothée St., Montreal, Que. |
| Held, Albert Edward (Double Course, B.A., M.D.) | Arts 2 | 460 Wiseman Ave., Outremont, Que. |
| Held, Samuel | Phar. | 460 Wiseman Ave., Outremont, Que. |
| Helfield, Jacob Moses | Law 1. (B.C.L.) | 842 Rivard St., Montreal, Que. |
| Henderson, Donald George | Arts 1. (B.Sc.) | Huntingdon, Que. |
| Henderson, Ian Gordon | Ap. Sci. 2 | Williamstown, Ont. |
| Henderson, James Gray | Med. 3 | Troy, Ont. |
| Henderson, John Stanley | Med. 4. | Chilliwack, B.C. |
| Henderson, John Tasker | Ap. Sci. 1 | 575 Roslyn Ave., Westmount, Que. |
| Henderson, Kenneth Armstrong | Com. 2 | 36 Brant Road N., Galt., Ont. |
| Henderson, Mabel Delia | Arts P. | Morton, Ont. |
| Henderson, Peter | Dent. 3 | Box 488, Dundas, Ont. |
| Henderson, Reginald Smith | Med. 5. (Final) | Merigomish, N.S. |
| Henderson, Thomas Greenshields | Arts 1. | 20 Summerhill Ave., Westmount, Que. |
| Heneker, Dorothy Alice | Law 3. (LL.B.) | 453 Mackay St., Montreal, Que. |
| Heney, Frederick Gorden G. | Ap. Sci. 1 | Westboro, P.O., Ont. |
| Henry, Arthur Munro | Arts P. | 398 Third Ave., Verdun, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Henry, Edith Fee | Phys. Ed. P. | 60 Arlington Ave., Westmount, Que. |
| Henry, Hugh George | Med. 1 | Lucer, Jamaica, B.W.I. |
| Henry, John Stewart | Med. 5 (Final) | Salisbury, N.B. |
| Henry, Reginald Barrett | Med. 5 | 220 Beaconsfield Ave., Montreal, Que. |
| Henry, William Addison | Med. 5 (Final) | Gadsby, Alta. |
| Herman, Morris | Med. 4 | 2366 Clarke St., Montreal, Que. |
| Herman, Reuben | Dent. 1 | 110 Laval Ave., Montreal, Que. |
| Herscovitch, Harold | Dent. 3 | 1088 St. Urbain St., Montreal, Que. |
| Hershon, Henry Azov | Med. 3 | 1402 Clarke St., Montreal, Que. |
| Hershon, Samuel | Dent. 4 | 1402 Clarke St., Montreal, Que. |
| Herzberg, Emmy Lou (Double Course, B.A., M.D.) | Med. 2 Arts 4 | 348 Kensington Ave., Westmount, Que. |
| Hewetson, William James C | Arts 2 | 55 Argyle Ave., Montreal, Que. |
| Hewson, Charles Gerald | Arts 2 (Hon.) | 129 Parc Cartier, St. Henri, Que. |
| Hibbard, Rodger James B | Med. 5 (Final) | 332-12th Ave., N.W., Calgary, Alta. |
| Hiebert, Paul Gerhardt | Grad. Sch. | Winnipeg, Man. |
| Higgerty, Henry Bradley | Ap. Sci. 4 (Chem.) | 105 Waverly St., Ottawa, Ont. |
| Higgins, John Kerr | Dent. 4 | 397 Main St., St. John, N.B. |
| Higginson, Isabelle Fernie | Com. 3 | Buckingham, Que. |
| Higginson, Margaret Cumming | Arts 2 (B.Sc.) | Buckingham, Que. |
| Higginbotham, Norman Lindsay | Med. 4 | 620-12th St. S., Lethbridge, Alta. |
| Hill, Albert Griffin | Med. 4 | Box 142, Fergus, Ont. |
| Hill, Elmer James | Dent. 3 | 1129-2nd Ave., N.E., Moose Jaw, Sask. |
| Hill, Malcolm Carew T | Arts 1 | 466 Claremont Ave., Westmount, Que. |
| Hill, Nicholas Parsell | Med. 5 | 361 Kensington Ave., Westmount, Que. |
| Hill, Sara Woodward (Double Course, B.A., M.D.) | Med. 1 Arts 3 | 206 Walnut Ave., Wayne, Pa., U.S.A. |
| Hilton, George Edward M | Med. 5 | 126 Lewis St., Ottawa, Ont. |
| Hinchliffe, Joseph Edward | Ap. Sci. 2 | 2254 Shelbourne St., Victoria, B.C. |
| Hodge, Marjorie May | Arts 1 | 521 Clarke Ave., Westmount, Que. |
| Hodgson, Duncan McIntyre | Arts P. | 291 Drummond St., Montreal, Que. |
| Hodgson, John Robert L | Arts P. | 9 Tara Hall Ave., Montreal, Que. |
| Hodina, Frank Albert | Ap. Sci. 2 | 2590 B Waverley St., Montreal, Que. |
| Hoichberg, Harry | Ap. Sci. 4 (Ci.) | 1679 Hutchison St., Montreal, Que. |
| Holbrooke, George Loranger | Ap. Sci. 1 | 588 Lansdowne Ave., Westmount, Que. |
| Holden, George Wilfred | Grad. Sch. | 144 Mansfield St., Montreal, Que. |
| Holland, Charles Antliff | B.Sc., M.D. 4 | 123 The Boulevard, Westmount, Que. |
| Holland, Gwendolyn | Soc. Workers | 95 Durocher St., Montreal, Que. |
| Hollingworth, William D. G | Arts 1 | 460 Green Ave., Westmount, Que. |
| Holman, Henry Stewart | Com. 1 | 101 Holly Lodge, Davie St., Vancouver, B.C. |
| Holmes, Gladys Viola | Med. 5 (Final) | Lamont, Alta. |
| Holmes, Thomas Carlyle | Med. 5 (Final) | Victoria, B.C. |
| Holt, Mabel Kathleen | Grad. Nurses | Montreal, Que. |
| Home, Maurice | Grad. Sch. | 158 Park Ave., Montreal, Que. |
| Hooker, Lawrence Thomas | Med. 1 | Huntingdon, Que. |
| Hooper, William Henry | Ap. Sci. 2 | May, Idaho, U.S.A. |
| Hoover, Edward Philip | Arts 3 | 706 Carpenter St., Akron, Ohio, U.S.A. |
| Hope, John Donaldson | Med. 5 | Lachute, Que. |
| Hopper, Ronald Victor | Ap. Sci. 3 (Mi.) | Westboro, Ont. |
| Horsley, Evelyn Alberta | Arts 1 | 167 Hutchison St., Montreal, Que. |
| Horwitz, Philip | Com. 1 | 154 Nelson St., Ottawa, Ont. |
| Hosang, Samuel Alfred B | Med. 5 | Villa St. Ana, St. Anns, Trinidad, B.W.I. |
| Houghton, Edward Cliver | Arts 3 (B.Sc., Hon.) | 293 Hingston Ave., Montreal, Que. |
| Hovey, Lindsay Mansur | Ap. Sci. 3 (El.) | 833 McMillan Ave., Winnipeg, Man. |
| Howard, Waldorf Vivian | Grad. Sch. | 731 St. Urbain St., Montreal, Que. |
| Howe, Randolph Walter | Ap. Sci. 3 (Mi.) | 4525 St. Catherine St. W., Westmount, Que. |
| Howes, Frederick Stanley | Ap. Sci. 4 (El.) | 157 Elm Ave., Windsor, Ont. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Howie, John | Med. 3 | 227 Percival Ave., Montreal West,Que. |
| Howitt, Maurice Hamilton | Grad. Sch. | Macdonald College, Que. |
| Huckell, Robert Graham | Med. 5 (Final) | 10524-125th St., Edmonton, Alta. |
| Hudon, Frederick Valmore | Law 3 (B.C.L.) | Richmond, Que. |
| Hudon, Valmore J | Dent. 3 | 287 Prud'homme Ave., Montreal, Que. |
| Hudson, James Calvert | Arts 1 | 26 Claremon St., West Somerville, Mass., U.S.A. |
| Hughes, Henry Gordon | Ap. Sci. 2 (Arch.) | Royal Oak, R.M.D. 1, Vancouver Island, B.C. |
| Hughes, Philip Bernard | Ap. Sci. 2 | 29 Cote des Neiges Road, Montreal, Que. |
| Hughston, James Franklin | Ap. Sci. 2 | 614 Gilmour St., Ottawa, Ont. |
| Hume, John Polworth | Law 1 (B.C.L.) | 22 Montreal St., Sherbrooke, Que. |
| Hume, William Edward | Med. 5 (Final) | 24 Montreal St., Sherbooke, Que. |
| Humphrey, John Thomas Peter | Com 2 | 12 King St., St. John, N.B. |
| Hunten, Kenneth William | Grad. Sch. | Johnville, Que. |
| Hunter, Amy Elizabeth | Arts 1 | Huntingdon, Que. |
| Hunter, Piercy Starkey | Ap. Sci. 4 (Arch.) | American Hotel, Moncton, N.B. |
| Hurd, Frederick Warren | Arts 2 | 9 Weredale Park, Westmount, Que. |
| Hurdman, Winnifred Mary | Arts 3 | Breckenridge, Que. |
| Hutcheson, Dorothy Blanche | Arts 3 (Hon.) | Charlottetown, P.E.I. |
| Hutcheson, John Holden | Law 1 (B.C.L.) | 457 Clarke Ave., Westmount, Que. |
| Hutchins, Forbes Meredith | Ap. Sci. 2 | 381 Olivier Ave., Westmount, Que. |
| Hutchison, Eileen Brenda | Arts 3 | 328 Kensington Ave., Westmount, Que. |
| Hutchison, Margaret Elza | Arts 2 (B.A., B.H.S.) | 379 Grosvenor Ave., Westmount, Que. |
| Hutton, Robert Wallace | Ap. Sci. 1 | 43 Clarendon Ave., Ottawa, Ont. |
| Hutton, Thomas Gregory | Arts 4 (Hon.) | 43 Clarendon Ave., Ottawa, Ont. |
| Hyde, George Miller | Arts 2 | 114 Cedar Ave., Montreal, Que. |
| Hyman, Howard Davison | Ap. Sci. 3 (Ci.) | 249 Marcil Ave., Montreal, Que. |
| Hyndman, Alex. William | Dent. 4 | Sherbrooke, Que. |
| Ibbotson, Eileen Lois | Phys. Ed. 2 | 66 Rosemount Ave., Westmount, Que. |
| Ikovich, James | Ap. Sci. 2 | 164 Bubbling Well Road, Shanghai, China. |
| Illievitz, Abraham Bernard | Grad. Sch. | 241 Bishop St., Montreal, Que. |
| Ingersoll, Hugh Karl | Com. 2 | 113 Gilmour St., Ottawa, Ont. |
| Innes, John Floyd | Arts 3 | Grenville, Que. |
| Irwin, Prescott St. Clair | Med. 5 (Final) | Shelburne, N.S. |
| Israelovitch, Hyman | Dent. 3 | 2258 Notre Dame St. W., Montreal, Que. |
| Jacobs, Reginald Arthur | Com. 3 | 1014 Dorchester St. W., Montreal, Que. |
| James, Arthur Lorne | Ap. Sci. 4 (Ci.) | 1620 De La Roche St., Montreal, Que. |
| James, Arthur Gregory B | Med. 3 | Trinidad, B.W.I. |
| James, Harold Thomas | Ap. Sci. 3 (Ci.) | 130 Flora St., Ottawa, Ont. |
| James, Kathleen (Cancelled Nov. 15th, 1923) | Arts P | 10 Brooke Ave., Westmount, Que. |
| Jamieson, Brock F | Com. 2 | Barrie, Ont. |
| Jane, Robert Stephen | Grad. Sch. | 2158-6th Ave., W., Vancouver, B.C. |
| Janes, A. Norman | Arts 3 (Hon.) | 153 Gower St., St. John's, Newfoundland. |
| Jardine, George Henry | Med. 5 (Final) | Mt. Stewart, P.E.I. |
| Jardine, Jack Whiteley (Double Course, B.A., M.D.) | Arts 2 | Box 451, Nanaimo, B.C. |
| Jassby, David Gordon | Phar. | Oxford Ave., Montreal, Que. |
| Jehu, Walter | Ap. Sci. 1 | 475 Victoria Ave., Westmount, Que. |
| Jekill, Victor Henry T | Dent. 3 | 428 Pie IX Blvd., Montreal, Que. |
| Jenkins, John W | Arts 1 | 666 Belmont Ave., Westmount, Que. |
| Jenkins, Kathleen Ruby | Arts 2 (Hon.) | 361 Grosvenor Ave., Westmount, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Johns, Thomas Henry | Dent. 3 | 352 Gorge Road, Victoria, B.C. |
| Johnson, Albert | Arts P | Shawbridge, Que. |
| Johnson, Charles Henry | Arts 2 | 463 Strathcona Ave., Westmount, Que. |
| Johnson, Edward Laurence | Ap. Sci. 1 | 9 Elgin St., Welland, Ont. |
| Johnson, Harry Charles | Ap. Sci. 3 (Me.) | 399 Gordon Ave., Verdun, Que. |
| Johnson, James William | Com. 1 | 345 Mill St., Philips Park, Manchester, England. |
| Johnson, Hobart Whitney | Med. 5 (Final) | Charleston Lake, Ont. |
| Johnson, Samuel John | Med. 2 | Thetford Mines West, Que. |
| Johnson, Violet Florence | Arts 2 (Hon.) | 751 Hartland Ave., Outremont, Que. |
| Johnson, Willard Edgar | Med. 4 | Almonte, Ont. |
| Johnston, Burnett Samuel | Med. 3 | Brockville, Ont. |
| Johnston, Douglas Butterworth | Med. 5 (Final) | Athens, Ont. |
| Johnston, Florence (Double Course, B.A., D.D.S.) | Arts 4 Dent. 2 | 221 Mance St., Montreal, Que. |
| Johnston, Harry Wyatt | Ap. Sci. 4 | 25 Bellingham Road, Outremont, Que. |
| Johnston, John Lyle | Med. 5 (Final) | Inwood, Ont. |
| Johnston, Ralph Ernest | Med. 5 (Final) | Perivale, Ont. |
| Johnston, Walter Locke | Com. 2 | 217 Harvard Ave., Montreal, Que. |
| Jones, Chilion Eric Ford | Arts 3 | Maitland, Ont. |
| Jones, Frank Meredith | Med. 3 | 2616 Blackwood Ave., Victoria, B.C. |
| Jones, Randolph Ketchum | Grad. Sch. | Woodstock, N.B. |
| Jones, Thomas Meredith | Med. 5 (Final) | Metchosin P.O., Victoria, B.C. |
| Jones, Walter | Ap. Sci. 2 | 167 Selby St., Westmount, Que. |
| Jones, William MacKinley | Dent. 2 | Weymouth, N.S. |
| Joseph, Philip | Law 3 (LL.B.) | 1128 Laurier Ave., W. Montreal, Que. |
| Kachzensky, Leo | Arts 1 | 1071a St. Urbain St., Montreal, Que. |
| Kaine, Charles Stanley | Arts 1 (B.Sc.) | 48 D'Artigny St., Quebec, Que. |
| Kalnit, George Theodore | Med. 4 | 356 Springfield Ave., Newark, N.J., U.S.A. |
| Kaminski, Josephine Mary | Arts 1 | 157 Queen St., Kingston, Ont. |
| Kanigsberg, Jacob Clarence | Med. 4 | 430 Strathcona Ave., Westmount, Que. |
| Kaplan, Florence Rose | Arts 1 | 307 St. Joseph Blvd. W., Montreal, Que. |
| Kaplansky, David S | Dent. 4 | 207 Decarie Blvd., Apt. 5, Montreal, Que. |
| Kassowsky, Mordechy (Cancelled Jan., 1924) | Ap. Sci. 3 (Chem.) | Palestine. |
| Katz, Moses | Med. 2 | 25 Drolet St., Montreal, Que. |
| Katz, Sara | Arts 1 | 25 Drolet St., Montreal, Que. |
| Katz, William | Med. 2 | 2307a Esplanade Ave., Montreal, Que. |
| Kaufman, Morton Ralph | Med. 5 | 1970 Clark St., Montreal, Que. |
| Kay, Edwin | Med. 5 (Final) | 637 St. André St., Montreal, Que. |
| Kaye, John Robert | Ap. Sci. 4 (Me.) | 400 Robie St., Halifax, N.S. |
| Kayser, Violet Agnes | Arts 2 | 736 Sherbrooke St. E., Montreal, Que. |
| Keane, Eileen Fitzgerald | Phys. Ed. 1 | 502 Dorchester St., Montreal, Que. |
| Kearns, Gerald Vincent | Com. 3 | 74 Somerset St., Ottawa, Ont. |
| Kearns, Hubert John | Med. 5 (Final) | Chesterville, Ont. |
| Keddy, Russell Alfred | Med. 5 (Final) | Hemmingford, Que. |
| Kee, Ralph Holden | Dent. 2 | 208 Pitt St., St. John, N.B. |
| Keene, Thomas Ross | Ap. Sci. 1 | 164 Marlowe Ave., Montreal, Que. |
| Keir, David Burnett (Double Course, B.A., M.D.) | Arts 2 | Malpeque, P.E.I. |
| Kelland, Frank Joseph | Com. 1 | 135 City Councillors St., Montreal, Que. |
| Kellnor, Arthur | Med. 2 | 458 Elm Ave., Westmount, Que. |
| Kelloway, Warwick Freeman | Arts 4 (Hon.) | Rawdon, Que. |
| Kelloway, Mrs. W. F. | Arts P | Rawdon, Que. |
| Kelly, Edward Patrick | Med. 5 | 78 Durocher St., Montreal, Que. |
| Kelly, Michael Aloysius | Med. 3 | 102 Osgoode St., Ottawa, Ont. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Kelly, William Moore | Med. 5 (Final) | Huntingdon, Que. |
| Kennedy, Roy | Med. 4 | Kensington, P.E.I. |
| Kennedy, W. Roland | Med. 5 | 439 Mance St., Montreal, Que. |
| Kenrick, Norman Edward | Com. 2 | 401 Mance St., Montreal, Que. |
| Kensit, Marjorie Eleanor | Phys. Ed. 1 | 563 Dovercourt Road, Toronto, Ont. |
| Kent, Archibald David | Ap. Sci. 4 (Met.) | Tatamagouche, N.S. |
| Kent, Kenneth MacIver | Ap. Sci. 4 (Me.) | 4024 Dorchester St. W., Westmount Que. |
| Kerr, John Alexander | Dent. 2 | 1204 Des Erables Ave., Montreal, Que. |
| Kerr, Samuel MacMaster (Cancelled Jan. 1924) | Arts 1 | Ballyclare, Co. Antrim, Ireland. |
| Kerr, Trevor Wylie | Ap. Sci. 1 | 30 Bellevue Ave., Westmount, Que. |
| Kershman, Jack | Arts 1 (B.Sc.) | 417 Laval Ave., Montreal, Que. |
| Ketchen, William Arthur | Ap. Sci. 1 | Port Alice, B.C. |
| Keysor, Philip Sheridan | Arts 1 | Plattsburg, N.Y., U.S.A. |
| Killam, Donald Alexander | Ap. Sci. 1 | Weymouth, N.S. |
| Kimpton, Royden L. (Cancelled Nov. 1st, 1923) | Com. P | |
| Kindestin, William | Dent. 4 | 2462 Park Ave., Apt. 4, Montreal, Que. |
| King, Ralph Hallam | Med. 1 | P.O. Box 99, Bridgetown, Barbados, B.W.I. |
| Kingsmill, Walter Juchereau | Ap. Sci. 4 (Mi.) | Ballybeg, Rockcliffe, Ottawa, Ont. |
| Kingston, George Harold | Ap. Sci. 2 | Prescott, Ont. |
| Kingston, Paul Thomas | Med. 1 | Prescott, Ont. |
| Kirby, Halder Smith | Ap. Sci. 4 (Chem.) | Wakefield, Que. |
| Kirk, Claude Murray | Med. 4 | Antigonish, N.S |
| Kirschberg, Arthur A. (Died Jan. 18th, 1924) | Ap. Sci. 4 (El.) | 1025 Tupper St., Montreal, Que. |
| Kirk, Suey Pang | Ap. Sci. 1 | 650 Bay St., Toronto, Ont. |
| Kirk, Thomas Edwin | Med. 2 | Antigonish, N.S. |
| Klein, Bessie | Phys. Ed. 1 | 721 Wiseman Ave., Outremont, Que. |
| Klein, Henry | Dent. 3 | 180 St. Joseph Blvd. W., Montreal, Que. |
| Klein, Isaac | Phar | 2381 Clarke St., Montreal, Que. |
| Kleker, Bernard | Med. 2 | 2203 Papineau Ave., Montreal, Que. |
| Klineberg, Jack | Arts 3 | 4059 Dorchester St. W., Westmount, Que. |
| Klineberg, Otto | Med. 5 | 4059 Dorchester St. W., Westmount, Que. |
| Klineberg, Queenie | Arts 4 | 4059 Dorchester St. W., Westmount, Que. |
| Knee, Cecil Howard | Com. 1 | 110 Westminster Ave.. Montreal West, Que. |
| Knowles, Eustace Clifford | Arts 1 | 58 McTavish St., Montreal, Que. |
| Knowlton, Paul Hamilton | Ap. Sci. 1 (Arch.) | 600 Lansdowne Ave., Westmount, Que. |
| Knowlton, Virginia Wallace | Arts 4 (B.Sc.) | 600 Lansdowne Ave., Westmount, Que. |
| Koff, Arthur K | Med. 2 | Malone, N.Y., U.S.A. |
| Kolber, Ben | Med. 4 | 1089 St. Lawrence Bldv., Montreal, Que. |
| Korenberg, Lyon Judah | Arts 1 (B.Sc.) | 1815 Esplanade Ave., Montreal, Que. |
| Korenberg, Samuel | Med. 5 (Final) | 85 Suzanne St., Montreal, Que. |
| Kosowatsky, Joseph Rafal | Arts 1 (B.Sc.) | 483 Clarke St., Montreal, Que. |
| Kouri, John David | Law 1 (B.C.L.) | 201 Marquette St., Montreal, Que. |
| Krakower, Abram | Med. 2 | 683b Henri Julien St., Montreal, Que. |
| Krakowsky, Hyman | Ap. Sci. 1 | 51 Wellington St., Sherbrooke, Que. |
| Kramer, Sasha | Arts 1 (B.Sc.) | 1021 Tupper St., Montreal, Que. |
| Krasner, H. (Cancelled Jan. 7th, 1924) | Arts 1 | 33a Colonial Ave., Montreal, Que. |
| Krasnoff, Max | Phar. 1 | 1014 Clarke Street, Montreal, Que. |
| Kruger, Samuel | Arts 1 | 911 Cadieux St., Montreal, Que. |
| Kuntz, Alfred Edward | Med. 5 | 424 Queen St., Ottawa, Ont. |
| Kurie, Francis Devereux | Arts 1 (B.Sc.) | 28 Lorne Ave., Montreal, Que. |
| Kursner, Louis | Arts 2 (Hon.) | 45 Maguire St., Montreal, Que. |
| Kydd, Mary Winnifred A | Grad. Sch | 4277 Dorchester St., Westmount, Que. |
| Kyle, Jean Douglas | Arts 1 (B.A., B.H.S.) | 467 Cote St. Antoine Road, Westmount, Que. |
| Kyle, Willard Hugh | Ap. Sci. 2 | 326 Patricia Ave., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Labkov, Samuel | Dent. 1 | 1115a City Hall Ave., Montreal, Que. |
| Labovitch, William Raymond | Phar. 1 | 149 Drolet St., Montreal, Que. |
| Lacoe, Jeremiah Ralph | Med. 3 | 1695 Hutchison St., Montreal, Que. |
| Lafleur, Gilbert Thomas | Arts 4 (Hon.) | 314 Peel St., Montreal, Que. |
| Lafond, Roméo | Law 1 (B.C.L.) | 1025 St. Catherine St. W., Montreal, Que. |
| Lajoie, Romeo James | Med. 3 | Edmundston, N.B. |
| Lalonde, Edith Ruth | Phar. | 73 Seventh Ave., Ville St. Pierre, Que. |
| Lamb, Cecil Alexander | Grad. Sch. | R.R. No. 1, Cloverdale, B.C. |
| Lamothe, Bernard D. | Dent. 2 | 1042a Rachel St., Montreal, Que. |
| Lamoy, Lester | Med. 5 (Final) | Ausable Forks, N.Y., U.S.A. |
| Lanctot, Raymond | Ap. Sci. 4 (Me.) | 1908 Van Horne Ave., Montreal, Que. |
| Land, Harry David | Med. 4 | 11 Lingan Road, Sydney, N.S. |
| Landry, Leo M. | Med. 2 | 101 Rensselaer Ave., Ogdensburg, N.Y., U.S.A. |
| Lane, Cecil Taverner | Ap. Sci. 3 (El.) | 905 St. Urbain St., Montreal, Que. |
| Lane, Frederick William | Arts 1 | 12 The Circus, Greenwich, London, England. |
| Lane, Wilfred LeMesurier | Ap. Sci. 4 (Mi.) | 231-8th Ave. E., Calgary, Alta. |
| Langley, Alfred John Godwin | Ap. Sci. 2 | Eastleigh, England. |
| Lanthier, John Cecil | Med. 5 | 1179 Cote St. Antoine Road, Montreal, Que. |
| Lantz, Joseph Pulsifer | Med. 5 | Charlottetown, P.E.I. |
| Laplante, Joseph Paul | Med. 2 | 2532 Rouen St., Montreal, Que. |
| Laporte, Leo Conrad | Ap. Sci. 1 | 434 Mance St., Montreal, Que. |
| Larkin, Edward Alan | Med. 1 | 24 Colonial St., St. John's Newfoundland. |
| Larose, Paul | Grad. Sch. | 212 Prud'homme Ave., Montreal, Que. |
| Latham, Allan Brockway | Arts 2 | 267 Regent Ave., Montreal, Que. |
| Lathrop, Eugene Comstock (Cancelled Dec. 21st, 1923). | Com. P. | Melbourne, Florida, U.S.A. |
| Lattoni, Mario Emile | Law 3 (B.C.L.) | 813 Alma St., Montreal, Que. |
| Laughland, Frank | Grad. Sch. | Hartney, Man. |
| Laurion, Gaston | Ap. Sci. 3 (Ci.) | 2537 Notre Dame St. W., Montreal, Que. |
| Lawrence, John Ferdinand (Cancelled Oct. 1923) | Ap. Sci. 2 | 350 Driveway, Ottawa, Ont. |
| Lawrence, Herbert Seamann | Med. 3 | Claremont, Jamaica, B.W.I. |
| Lawson, John Walter | Med. 5 (Final) | Eganville, Ont. |
| Lax, Abel | Med. 5 (Final) | Hawkesbury, Ont. |
| Layhew, John Howard | Arts 4 (Hon.) | 361 Mance St., Montreal, Que. |
| Lazarovitz, Sadie | Arts 1 | 127 St. Paul St., Quebec, Que. |
| Lazerte, Leonard | Med. 5 | Iroquois, Ont., R.R. No. 2. |
| LeBaron, Francis Gordon | Com. 1 | North Hartley, Que. |
| LeBlanc, Alcide (Cancelled Oct. 1923). | Ap. Sci. 1 | Richibucto, N.B. |
| Ledgerwood, George Archibald | Med. 2 | Sandy Lake, Man. |
| Leech, Beverley Charles | Med. 5 | 2330 Victoria Ave., Regina, Sask. |
| Legg, Roland Edward | Grad. Sch. | 1653–6th Ave., New Westminster, B.C. |
| Lehan, Ralph Leonard M. | Com. 1 | 817 Grosvenor Ave., Westmount, Que. |
| Leitch, Hugh James | Ap. Sci. 4 (Ci.) | 476 Strathcona Ave., Westmount, Que. |
| Leland, Elmer Franklin | Com. 1 | Gardner, Mass., U.S.A. |
| LeMay, Charles David | Com. 1 | 231 N. Brodie St., Fort William, Ont. |
| Lenan, S. Maurice A. (Cancelled Oct. 1923). | Arts P. | Calcutta, India. |
| Lepper, Olive | Phy. Ed. 2 | 11 May Ave., Verdun, Que. |
| Leslie, A. Ogilvy | Ap. Sci. 4 (El.) | 824 Dorchester St. W., Montreal, Que. |
| Leslie, Charles William | Arts 1 | 824 Dorchester St. W., Montreal, Que. |
| Levêque, André-Jean | Ap. Sci. 3 (Me.) | 3311 Drolet St., Montreal, Que. |
| Leveque, Cedric Philip | Med. 2 | 454 Grosvenor Ave., Westmount, Que. |
| Levikoff, Frances | Arts 2 | 2400 Hutchison St., Outremont, Que. |
| Levin, Simon | Med. 2 | 749 Notre Dame St. W., Montreal, Que. |
| Levine, Benjamin | Med. 3 | 101 Sanguinet St., Montreal, Que. |
| Levitt, Harry | Med. 2 | 1220 St. Urbain St., Montreal, Que. |
| Levitt, Maxwell | Dent. 3 | 1218 St. Urbain St., Montreal, Que. |
| Levitt, Pauline Dorothy | Arts 1 | 69 Arlington Ave., Westmount, Que. |
| Levitt, Rachel | Arts 1 | 323 Grosvenor Ave., Westmount, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Levy, Gordon Westrich | Arts 3 (Hon.) | 1745 Hutchison St., Apt. 6, Montreal, Que. |
| Lévy, Simonne | Arts 1 | 713 Delormier Ave., Montreal, Que. |
| Lewis, Charley Eaton | Com. 1 | 135 Victoria St., Truro, N.S. |
| Lewis, Roland Reed | Ap. Sci. 3 (El.) | Perth, N.B. |
| Lidstone, Malcolm | Arts 2 | Clarke's Beach, Newfoundland. |
| Lidstone, Victor John | Law 3 (B.C.L.) | 4211 Dorchester St. W., Westmount, Que. |
| Lightstone, Louis | Dent. 3 | 54 Colonial Ave., Montreal, Que. |
| Lilien, Milton Morton | Med. 3 | 37 Hillside Ave., Newark, N.J., U.S.A. |
| Lilly, Olga Victoria | Grad. Nurses 1 | 243 Elm Ave., Westmount, Que. |
| Lindsay, Edythe Harriet | Soc. Workers... Grad. Nurses... | 433 Mt. Pleasant Ave., Westmount, Que. |
| Lindsay, Egan Alice | Grad. Nurses | 472 Prud'homme Ave., Montreal, Que. |
| Lindsay, John R | Med. 5 | Glasgow, Ont. |
| Lister, Arthur | Ap. Sci. 2 | 75-7th Ave., Ville St. Pierre, Que. |
| Litovsky, Abraham | Arts 2 (Hon.) | 14 Bronsdon Lane, Montreal, Que. |
| Little, John William | Com. 1 | 83 Central Ave., London, Ont. |
| Little, Lawrence P | Med. 5 | 201 McLeod St., Ottawa, Ont. |
| Little, William Stephen | Med. 2 | Richmond, Ont. |
| Littner, Max | Med. 4 | 1802 Hutchison St., Montreal, Que. |
| Lloyd, Arthur Octavius | Arts 3 (Hon.) | Prescott, Ont. |
| Lloyd, Milton Sills | Med. 5 (Final) | Rocanville, Sask. |
| Lochead, John Richard | Med. 3 | 3136-2nd Ave. W., Vancouver, B.C. |
| Lockhart, Margaret Wolferstan | Arts P | 230 Belfrage Road, Westmount, Que. |
| Logan, David R (Double Course, B.A., M.D.) | Arts 2 | 45 Aberdeen Ave., Westmount, Que. |
| Logan, Robert S | Ap. Sci. 3 (Me.) | 45 Aberdeen Ave., Westmount, Que. |
| London, Molly | Soc. Workers... | 965a City Hall Ave., Montreal, Que. |
| Longworth, Eileen Victoria | Arts 3 (Hon.) | Fitzroy St., Charlottetown, P.E.I. |
| Loomis, Dan McKay | Ap. Sci. 4 (Me.) | 34 Lincoln Ave., Montreal, Que. |
| Loomis, Edward Burrows | Ap. Sci. 1 | 159 Queen St., Sherbrooke, Que. |
| Lord, Dorothy de Stickney | Arts P | 399 Mackay St., Apt. 12, Montreal, Que. |
| Lough, Hubert Oberlin | Med. 3 | 6595 Monkland Ave., Montreal, Que. |
| Lough, Margaret Johnston | Arts 3 (Hon.) | 6595 Monkland Ave., Montreal, Que. |
| Louis, Florence | Arts 1 | 214 Villeneuve Ave. W., Montreal, Que. |
| Low, S. Ernest | Ap. Sci. 3 (Me.) | 20 Pansy Ave., Ottawa, Ont. |
| Lowry, Ira King | Dent. 3 | Lennoxville, Que. |
| Luke, Josephus Corbus | Arts 1 | 41 Brock Ave. N., Montreal West, Que. |
| Lunan, Douglas Mackenzie | Com. 1, 2 | Huntingdon, Que. |
| Lundy, Frederick William | Com. P | Paris, Ont. |
| Lunn, Frederick Richard | Arts 1 | 458 Argyle Ave., Westmount, Que. |
| Lunny, Patrick Joseph | Arts 1 (B.Sc.) | 357 Olivier Ave., Westmount, Que. |
| Lusby, Eric Blair | Ap. Sci. 3 (Chem.) | 215 Royal Ave., New Westminster, B.C. |
| Luxton, L. C (Cancelled Oct. 1923) | Ap. Sci. 1 | |
| Lyman, Beatrice Mary Tudor | Arts 1 | 83 Redpath Crescent, Montreal, Que. |
| Lynch, John G (Cancelled Feb. 6th, 1924.) | Dent. 3 | 525 McLeod St., Ottawa, Ont. |
| Lynch-Staunton, Victor M | Law 1 (B.C.L.) | Mountain Brow, Hamilton, Ont. |
| Lynde, Carleton John | Ap. Sci. 1 | Macdonald College, Que. |
| Lynn, Leo Joseph | Med. 5 | 16 Lambert Ave., Chelsea, Mass., U.S.A. |
| Lyons, Alfred Labori | Med. 2 | 1051 Boston Road, New York, N.Y. |
| Lyons, Arthur Franklin Woods | Ap. Sci. 1 | 26 Dufferin Ave., Brantford, Ont. |
| Lyons, Avery Calder | Arts 1 | 26 Dufferin Ave., Brantford, Ont. |
| Lyons, Clarence Owen | Phar | 271 Sherbrooke St. W., Montreal, Que. |
| Lyons, Ivan Herbert | Phar | 271 Sherbrooke St. W., Montreal, Que. |
| Macallum, Alexander Douglas | Grad. Sch | 470 Cote St. Antoine Road, Westmount, Que. |
| MacArthur, Dorothy Grace | Phy. Ed. 2 | Summerside, P.E.I. |
| Macaulay, Malcolm John | Med. 3 | 802 George St., Sydney, N.S. |
| McAvity, John Allan (Cancelled January, 1924) | Ap. Sci. 2 | 196 King St., St. John, N.B. |
| McBride, William Haskett | Med. 5 (Final) | Carp, Ont. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| McCabe, Claude Everett A. | Dent. 1 | Valleyfield, Que. |
| McCall, Alan Drummond | Ap. Sci. 4 (Me.) | 41 Lincoln Ave., Montreal, Que. |
| McCallum, Duncan John | Dent. 1 | Danville, Que. |
| MacCallum, Russell | Arts 2 (B.Sc.) | Buckingham, Que. |
| MacCallum, Thurlow Blackburn | Dent. 3 | Poltimore, Que. |
| McCarrey, Harold James | Com. 1 | 912 Tupper St., Montreal, Que. |
| McClintock, Wyman Dunbar | Phar. 1 | Sedro-Woolley, Washington, D.C. |
| McClung, Joseph Eldon | Ap. Sci. 2 | Watrous, Sask. |
| McClure, James C. (Cancelled December, 1923) | Med. 5 (Final) | Cowansville, Que. |
| McClure, Lindley Wilberforce | Ap. Sci. 1 | 1068 Sherbrooke St. E., Montreal, Que. |
| McCombe, Reginald Mayne | Ap. Sci. 1 | 4294 Dorchester St. W., Montreal, Que. |
| McConnell, Leslie Campbell | Arts 1 (B.Sc.) | Aylmer East, Que. |
| McConnell, Richard Brandford | Arts 1 (B.Sc.) | Rideau Club, Ottawa, Ont. |
| McCordick, Helen Jean | Phy. Ed. 2 | 171 Carling St., Ottawa, Ont. |
| McCormack, Colin W. | Med. 4 | Renfrew, Ont. |
| McCormick, Thomas Bland | Arts P | 651 Talbot St., London, Ont. |
| McCracken, Elmer G. | Ap. Sci. 4 (El.) | Huntingdon, Que. |
| McCrae, Robert Perce S. (Cancelled February, 1924) | Com. 1 | 85 Melbourne St., Sherbrooke, Que. |
| McCready, Harriet Hazel | Phy. Ed. 1 | 173 Douglas Ave., St. John, N.B. |
| McCrimmon, Frederick Gordon | Arts 1 | Huntingdon, Que. |
| McCuaig, Duncan Roderick | Med. 4 | Bainsville, Ont. |
| McCuaig, E. Barton | Arts 2 | Bainsville, Ont. |
| McCulloch, Frank Dudley | Med. 5 | 76 Hochelaga St. E., Moose Jaw, Sask. |
| MacDermid, Lynden Elwood | Med. 5 (Final) | Martintown, Ont. |
| MacDermot, Pembroke Noel | Med. 3 | 90 St. Matthew St., Montreal, Que. |
| McDiarmid, Donald Carl | Ap. Sci. 3 (Me.) | Carleton Place, Ont. |
| MacDiarmid, W. J. Greig | Arts 2 (Hon.) | 351 Selby St., Westmount, Que. |
| Macdonald, Aildred Alexander | Med. 5 (Final) | Antigonish, N.S. |
| McDonald, Alfred Powell | Med. 1 | 70 New Gate St., St. John, Antigua, B.W.I. |
| Macdonald, Anita Cecelia | Med. 4 | 201 Agnes St., New Westminster, B.C. |
| Macdonald, Claude Augustine | Med. 5 (Final) | 201 Agnes St., New Westminster, B.C. |
| Macdonald, Daniel Archibald | Med. 5 (Final) | Fraser's Mills, N.S. |
| MacDonald, Duncan Andrew | Com. 1 | 65 St. Mark St., Montreal, Que. |
| Macdonald, Edward Mortimer | Law 3 (B.C.L.) | Pictou, N.S. |
| MacDonald, George Whitefield | Arts 3 (Hon.) | Campbellton, N.B. |
| McDonald, Howard Alexander | Med. 2 | Alexandria, Ont. |
| McDonald, James Allan Emmons | Com. 1 | Valleyfield, Que. |
| MacDonald, John | Ap. Sci. 4 (Chem.) | Sydney Mines, N.S. |
| McDonald, Oswald | Med. 2 | St. John, N.B. |
| Macdonald, Ronald | Med. 5 (Final) | 823 Lorne Crescent, Montreal, Que. |
| MacDonald, Samuel Arthur | Arts 2 | 45 Fitzroy St., Charlottetown, P.E.I. |
| McDonell, Eugene Donald | Med. 4 | Box 3, Dalhousie Station, Que. |
| McDougall, Marguerite | Grad. Nurses | Victoria, B.C. |
| MacDuff, Albert | Ap. Sci. 3 (Arch.) | 322 Selby St., Westmount, Que. |
| McElligott, Dominic | Med. 5 (Final) | Eganville, Ont. |
| McEwan, Daniel Wallace | Dent. 1 | 1932 McIntyre St., Regina, Sask. |
| McEvoy, John Vincent | Med. 3 | Dalhousie, N.B. |
| MacFarlane, A. Lyle | Grad. Nurses | Charlottetown, P.E.I. |
| McFarlane, Duncan Herbert | Arts 4 | Nokomis, Sask. |
| MacFarlane, Walter Douglas | Grad. Sch. | Windsor, N.S. |
| McGerrigle, Andrew James (Cancelled Jan, 1924) | Arts 1 | Ormstown, Que. |
| McGerrigle, Harold William | Arts 2 | Ormstown, Que. |
| MacGillis, Lester | Ap. Sci. 4 (El.) | Lancaster, Ont. |
| MacGillivary, Donald Joseph | Med. 5 (Final) | Main St., Antigonish, N.S. |
| McGinn, William John | Med. 5 (Final) | North Wiltshire, P.E.I. |
| MacGregor, Archie Duncan | Dent. 3 | 10650-78th Ave., Edmonton, Alta. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| McGregor, Douglas Urquhart | Med. 5 (Final) | Waterdown, Ont. |
| McGregor, Frank Roy | Med. 1 | 1 Belmont House, Victoria, B.C. |
| MacGregor, Roderick Guy | Dent. 2 | New Glasgow, N.S. |
| McGuire, John Alfred | Med. 5 | Cornwall, Ont. |
| McHarg, Muriel Stenning | Grad. Sch. | Coaticooke, Que. |
| McIntosh, Arlie John Austin | Com. 3 | Winchester, Ont. |
| McIntosh, Clarence Alexander | Med. 5 (Final) | 331 Metcalfe St., Ottawa, Ont. |
| MacIntosh, Jessie E. | Grad. Nurses | 134 Ballantyne Ave., Montreal West, Que. |
| McIntosh, Robert Thornton | Com. P. | 262 Prince Arthur St. W., Montreal, Que. |
| MacIntyre, Donald Charles | Ap. Sci. 1 | Windsor Mills, Que. |
| McKay, Chipman O. (Cancelled Jan. 1924) | Arts 1 | 28 Wright St., St. John, N.B. |
| McKay, Douglas Alexander | Com. 2 | 679 Ouellette Ave., Windsor, Ont. |
| McKeen, Margaret Viola | Arts 1 | 48 Park Ave., Montreal, Que. |
| MacKeen, Robert Arthur H. | Med. 5 (Final) | 297 Prince Arthur St. W., Montreal, Que. |
| McKenna, Leo Bernard | Med. 3 | 179 Dorchester St., Charlottetown, P.E.I. |
| McKenna, Philip Dennis | Med. 4 | Vernon Bridge, P.E.I. |
| MacKenzie, Ian | Med. 3 | Campbellton, N.B. |
| Mackenzie, John Cumming | Med. 2 | "Parklea," Old Kilpatrick, Glasgow, Scotland. |
| McKenzie, Norman Hector | Ap. Sci. 2 | 796 Victoria Road, Sydney, N.S. |
| McKeown, Hilton John | Med. 3 | Russell, Ont. |
| McKeown, Kenneth Creighton (Cancelled Jan., 1924) | Arts 1 | 234 Redfern Ave., Westmount, Que. |
| MacKercher, Donald Angus | Med. 3 | Maxville, Ont. |
| McKim, Anson C. | Com. 3 | 648 Roslyn Ave., Westmount, Que. |
| MacKinnon, Alice Victoria G. | Arts 1 | Lachute, Que. |
| McKinnon, Douglas | Med. 3 | Hollister, Calif., U.S.A. |
| MacKinnon, Hugh Neil | Dent. 2 | Glace Bay, N.S. |
| MacKinnon, James D | Med. 5 (Final) | 825 Lorne Crescent, Montreal, Que. |
| McKinnon, Stuart Duncan | Med. 2 | Cupar, Sask. |
| McKyes, Shirley Edward | Ap. Sci. 2 | 71 Milton St., Montreal, Que. |
| MacLaren, David Gordon | Com. 1 | 435 Grosvenor Ave., Westmount, Que. |
| McLaren, Leo Gerard | Ap. Sci. 4 (Ci.) | St. Michel des Saints, Berthier, Que. |
| MacLaren, Lorn Albert | Ap. Sci. 1 | Buckingham, Que. |
| MacLaren, Margaret Jardine L. | Arts 3 (Hon.) | 75 Coburg St., St. John, N.B. |
| McLauchlin, Lucius Gould | Med. 5 (Final) | 173 Queen St., Truro, N.S. |
| MacLean, Basil Clarendon | Med. 4 | 79 Cabot St., Montreal, Que. |
| McLean, Ernest Matthew | Med. 5 | 31 Frederick St., Port of Spain, Trinidad, B.W.I. |
| MacLean, Hugh Alan | Arts 4 | 1020 Moss St., Victoria, B.C. |
| MacLean, John Gordon | Med. 2 | North Wiltshire, P.E.I. |
| MacLean, Kenneth Sheldon | Med. 4 | North Wiltshire, P.E.I. |
| McLean, Lewis Follett | Med. 3 | 205 Parkdale Ave., Buffalo, N.Y. |
| MacLean, Mary Winifred | Arts 2 (Hon.) | Souris, P.E.I. |
| MacLean, Melba R. | Arts P. | Cowansville, Que. |
| MacLeay, Jean Stalker | Arts 3 (Hon.) | 92 Bagot St., N. Kingston, Ont. |
| McLellan, Allister Matheson | Med. 5 (Final) | Tatamagouche, N.S. |
| McLellan, Annie Mildred | Arts 4 | 710 Harland Ave., Outremont, Que. |
| MacLennan, David Alexander | Med. 1 | Campbellton, N.B. |
| MacLennan, Logan Seaforth | Grad. Sch. | 2560-1st Ave., Vancouver, B.C. |
| MacLennan, Malcolm | Grad. Sch. | Scotstown, Que. |
| MacLennan, Mary Muriel Currie | Med. 3 | 17 Holton Ave., Westmount, Que. |
| MacLeod, Alexander Norman | Ap. Sci. 5 (Arch.) | New Waterford, N.S. |
| MacLeod, Annie | Grad. Nurses | Oxford, N.S. |
| McLeod, Clarke Kenneth | Med. 3 | Westwood Ave., Wolfville, N.S. |
| MacLeod, Elmer Duncan | Arts 3 (Hon.) | Richmond, Que. |
| MacLeod, John Peter | Com. 2 | Gould Station, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| MacLeod, John Wendell (Course B.Sc., M.D.) | Arts 2 | 3189 St. James St., Montreal, Que. |
| MacLeod, Malcolm Douglas | Ap. Sci. 1 | Hill View, Half-Way-Tree, Jamaica, B.W.I. |
| MacLeod, Neil | Med. 3 | Summerside, P.E.I. |
| MacLeod, Robert Brodie | Arts 2 (Hon.) | 3189 St. James St., Montreal, Que. |
| MacLeod, William David | Dent. 3 | Vernon, P.E.I. |
| McLetchie, James Kennedy | Arts 4 (Hon.) | 179 Dorchester St. W., Montreal, Que. |
| McMahon, Roger Emmett | Dent. 1 | 78-14th Ave., Lachine, Que. |
| McMartin, Rita | Arts P | 7 Redpath Crescent, Montreal, Que. |
| McMaster, Frances Ross | Arts 3 | 365 Metcalfe Ave., Westmount, Que. |
| McMaster, Francis White | Ap. Sci. 3 (Ci.) | 596 Lansdowne Ave., Westmount, Que. |
| MacMillan, Donald Reid | Dent. 1 | 339 St. John St., Fredericton, N.B. |
| MacMillan, Hugh D | Arts 3 | Dalkeith, Ont., R.R. No. 2. |
| McMillan, Katherine Louise | Phys. Ed. 2 | Jacquet River, N.B. |
| MacMillan, Marianne Verity | Arts 4 (Hon.) | 447 Mt. Pleasant Ave., Westmount, Que. |
| McMillan, Ralph Edwin | Ap. Sci. 3 (El.) | 169 Villeneuve Ave. W., Montreal, Que. |
| McNabb, Archibald Hubert | Ap. Sci. 3 (Mi.) | Waldo, B.C. |
| McNabb, Harvey Clifford | Dent. 2 | Renfrew, Ont. |
| McNally, Thomas Joseph | Dent. 1 | Barachois, Gaspe, Que. |
| McNamara, Wesley Camp | Med. 3 | Young's Cove Road, N.B. |
| McNamee, Foster Thomas | Arts 1 | 281 Querbes Ave., Outremont, Que. |
| MacNaughton, Alan Aylsworth | Arts 2 (Hon.) | 251 Hingston Ave., Montreal, Que. |
| McNaughton, Cornelius Harold | Ap. Sci. 3 (Mi.) | Thetford Mines, Que. |
| MacNaughton, Eric Alexander | Med. 4 | Martintown, Ont. |
| McNaughton, Francis Lothian | Arts 1 | 4565 Sherbrooke St. W., Montreal, Que |
| McNaughton, Malcolm Edward | Arts 2 (B.Sc.) | 4565 Sherbrooke St. W., Westmount, Que. |
| McNaughton, Muriel Carr | Arts 3 | 4565 Sherbrooke St. W., Westmount, Que. |
| MacNeily, William Henry | Grad. Sch. | MacNeily P.O., Ann Co., N.S. |
| MacOdrum, Murdoch Maxwell | Grad. Sch. | 56 Coburg Road, Halifax, N.S. |
| McOuat, Margaret M. | Arts 3 (Hon.) | Lachute, Que. |
| McPhail, Hugh | Arts 3 | Renfrew, Ont. |
| McPherson, Anna Isabel | Grad. Sch. | 14 Fenwick Ave., Montreal West, Que. |
| McRae, Arthur Lyell | Med. 5 (Final) | 9842-87th Ave., Edmonton, Alta. |
| MacRae, Donald | Dent. 4 | Maxville, Ont. |
| McRae, Duncan Ross | Ap. Sci. 1 | Bainsville, Ont. |
| Macrae, Ruth | Arts 4 (Hon.) | 29 Prospect St., Westmount, Que. |
| McRae, Shirley De Bruce (Cancelled Jan., 1924) | Com. 2 | 297 Prince Arthur St. W., Montreal, Que. |
| MacSporran, Maysie Steel | Arts 1 | 2114 Park Ave., Montreal, Que. |
| McTaggart, Eleanor Broder | Phys. Ed. 2 | Clinton, Ont. |
| MacTaggart, Mabel Mary | Grad. Nurses | Sonya, Ont. |
| McVey, John A | Med. 4 | 43 St. Mark St., Montreal, Que. |
| MacVicar, Donald Hugh | Arts 3 (Hon.) | Inwood, Ont. |
| McWatters, Marjorie | Arts 3 (Hon.) | 3593 Verville St., Montreal, Que. |
| Mabon, Gwendolen Elizabeth | Arts 1 | 409 Burnside Place, Montreal, Que. |
| Mace, Thomas Willard | Ap. Sci. 2 | 132 Champlain St., St. Johns, Que. |
| Mace, William Alfred | Ap. Sci. 2 | 396 Beaconsfield Ave., Montreal, Que. |
| Mack, Mary Josephine | Arts 1 (B.Sc.) | 22 Sherbrooke St. W., Montreal, Que. |
| Macklin, Rubin Peter | Ap. Sci. 2 | 1717 Park Ave., Montreal, Que. |
| Maddocks, Kathleen Isabel | Grad. Nurses | 351 Fortune St., Montreal, Que. |
| Maher, Bernard Stanley | Ap. Sci. 1 | Senneville, Que. |
| Mahoney, Hugh Raymond | Ap. Sci. 2 | 71a St. Famille St., Montreal, Que. |
| Mahoney, Lewis Daniel | Ap. Sci. 1 | 71a St. Famille St., Montreal, Que. |
| Major, Emile Joseph S | Med. 5 (Final) | 12 Fuel St., Ottawa, Ont. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Malamud, Nathan | Med. 3 | 1505 Clarke St., Montreal, Que. |
| Malcolm, Robert Bruce | Grad. Sch. | 295 Querbes Ave., Outremont, Que. |
| Mallett, Marshall | Med. 5 (Final) | 11219-77th Ave., Edmonton, Alta. |
| Mallinson, Marion (Cancelled Jan., 1924) | Arts 1 | 351 Madison Ave., Montreal, Que. |
| Malloch, Robert Stewart | Arts 1 | "Raeburn," Riverside, Cal., U.S.A. |
| Mallory, William Richter | Arts 1 B.Sc.) | 105 Wolseley Ave., Montreal West, Que. |
| Malloy, John Dorian | Med. 2 | Blind River, Ont. |
| Malo, Paul Edgar | Arts 1 | 21 Echo Drive, Ottawa, Ont. |
| Malone, Michael Patrick | Ap. Sci. 4 (El.) | 41a Mentana St., Montreal, Que. |
| Malone, Willis Peyton | Ap. Sci. 3 (Me.) | 1366 Green Ave., Westmount, Que. |
| Mancuso, Ferdinando | Med. 4 | Carlopoli, Catanzaro, Italy. |
| Manley, Edward Hugh | Ap. Sci. 1 | Thorold, Ont. |
| Manson, Arthur Bennett | Med. 4 | 3049 Hemlock St., Vancouver, B.C |
| Manson, Francis St. Clair | Ap. Sci. 4 (Chem.) | Apt. 5, 776 Durocher Ave., Outremont, Que. |
| Manville, Alfred Ernest | Ap. Sci. 2 | Prince Albert, Sask. |
| Maraldi, Carl Francis | Med. 5 (Final) | 32 Gaston St., Boston, Mass. |
| Marchand, Paul R. (Cancelled Feb., 1924). | Arts | 189 Park Ave., Montreal, Que. |
| Marcotte, Edward Gideon | Med. 5 (Final) | 26 Jackson St., Rochester, N.H. |
| Marcovitch, Malo Ralph | Phar. | 826 Henri Julien St., Montreal, Que. |
| Marcus, Simon | Med. 4 | 1074 St. Urbain St., Montreal, Que. |
| Marks, Dorothy | Arts P | 78 St. Famille St., Montreal, Que. |
| Marks, Lillian Frances | Arts 1 | 78 St. Famille St., Montreal, Que |
| Marpole, Harry Gifford | Com. 3 | 1790 King Edward Ave., Vancouver, B.C. |
| Marsh, Frank Jason | Med. 3 | Knowlton, Que. |
| Marsh, John Arthur | Com. 3 | Amherstburg, Ont. |
| Marsh, John | Med. 5 (Final) | 326 Grande Allée, Quebec, Que. |
| Marshall, Donald Murray | Ap. Sci. 1 | 181 St. Famille St., Montreal, Que. |
| Marshall, William Elliott | Arts 1 | Ormstown, Que. |
| Martin, Maud Elizabeth | Arts 1 | Rock Island, Que. |
| Martin, Norman Leslie | Dent. 2 | 1539 Chabot St., Montreal, Que. |
| Martin, Robert Henry | Arts P<br>Com. P | 5641 Sherbrooke St. W., Montreal, Que. |
| Martin, Ruth Audrey | Arts P | 351 Melville Ave., Westmount, Que. |
| Martin, Simeon Jameson | Med. 2 | 306 Wilson Ave., Montreal, Que. |
| Martin, Walter Herbert | Ap. Sci. 1 | 323 McKay St., Montreal, Que. |
| Massie, Redvers Albert | Med. 5 (Final) | 214 King St. E., St. John, N.B. |
| Massy-Bayly, Elizabeth | Arts 4 (Hon.) | 5035 Western Ave., Westmount, Que. |
| Matheson, G. Laurence | Ap. Sci. 4 (Chem.) | 69 Russell Ave., Ottawa, Ont. |
| Matheson, Jean Isabel | Arts 4 (Hon.) | 69 Russell Ave., Ottawa, Ont. |
| Mathews, Arnold Albert | Arts 1 | Lachute, Que. |
| Matthews, Gertrude Mary | Grad. Nurses | 395 Addington Ave., Montreal, Que. |
| Matthews, Gordon Oliver | Med. 5 (Final) | Port Arthur, Ont. |
| Matthews, Marjorie Cecelia | Arts 1 | 306 Marlowe Ave., Montreal, Que. |
| Matthews, May Emily | Grad. Nurses | 395 Addington Ave., Montreal, Que. |
| Mathewson, Dorothy Ruth | Grad. Sch. | 112 St. Famille St., Montreal, Que. |
| Mathewson, George Jeffrey | Ap. Sci. 1 | 464 Strathcona Ave., Westmount, Que. |
| Mathieson, David Laird | Arts 2 | Charlottetown, P.E.I. |
| Maxwell, Edward Gerrard | Ap. Sci. 4 (Ci.) | 12 Carleton St., Halifax, N.S. |
| Maxwell, Herries Stirling | Ap. Sci. 1 (Arch.) | 312 Peel St., Montreal, Que. |
| May, Cecil Agustus C | Com. 1 | 1931 Ash St., Victoria, B.C. |
| Mayer, Godfrey H. (Cancelled Oct., 1923) | Arts 1 | 657 Belgium Ave., Westmount, Que. |
| Meahan, Thomas Francis | Med. 4 | West Bathurst, N.B. |
| Melanson, Henry Paul (Course B.A., M.D.) | Med. 1<br>Arts 3 | 1615 Lajoie Ave., Outremont, Que. |
| Melanson, Joseph Arthur | Med. 3 | Shediac, N.B. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Mellen, Edward Wilson | Law 1 (LL.B.) | 103 Chomedy St., Montreal, Que. |
| Mellor, M. Dorothea (Course B.Sc., M.D.) | Arts 2 | Box 21, Richelieu, Que. |
| Melville, Kenneth Ivan | Med. 4 | 73 Hanover St., Kingston, Jamaica, B.W.I. |
| Melzak, Jacob Wolf | Med. 1 | Warsaw, Poland. |
| Mencher, Arthur Abraham | Med. 2 | 2452a St. Urbain St., Montreal, Que. |
| Mendelovitch, Manuel Arthur | Arts 4 (Hon.) | 636 St. Lawrence Blvd., Montreal, Que. |
| Mendelovitch, Moses | Arts 1 (B.Sc.) | 636 St. Lawrence Blvd., Montreal, Que. |
| Mendelsohn, S. Leon | Law 3 (B.C.L.) | 157 Rachel St. E., Montreal, Que. |
| Mennie, John Hamilton | Grad. Sch. | Vancouver, B.C. |
| Menzies, Clifford Gordon | Med. 4 | 130 Waverly St., Ottawa, Ont. |
| Menzies, Ernest Cahill | Med. 5 (Final) | Aylesbury, Sask. |
| Menzies, Mary Belle | Grad. Nurses | 130 Waverly St., Ottawa, Ont. |
| Mercer, Eleanor Belle | Grad. Nurses | 2112 Hutchison St., Montreal, Que. |
| Mercier, Alexander (Cancelled Oct., 1923) | Ap. Sci. 3 (Me.) | 373 Laval Ave., Montreal, Que. |
| Mercier, Maxime James (Cancelled Jan., 1924) | Ap. Sci. 2 | 373 Laval Ave., Montreal, Que. |
| Merrill, Elmer Lloyd | Arts P | 486 McLaren St., Ottawa, Ont. |
| Merritt, Gerald M | Ap. Sci. 3 (Ci.) | 74 Chesterfield Ave., Westmount, Que. |
| Merry, Ralph V | Arts 2 | Magog, Que. |
| Mettarlin, Aaron Hyman | Law 1 (B.C.L.) | 1359 St. Urbain St., Montreal, Que. |
| Meyer, John B | Arts P | 75 Rivermere Ave., St. Lambert, Que. |
| Michael, Paul P | Med. 2 | 1479 E. 14th St., San Leandro, Cal., U.S.A. |
| Michener, Robert Bryan | Med. 3 | 205 N. Washington St., Wichita, Kan., U.S.A. |
| Michlin, Jehiel | Arts 4 (Hon.) | 777 Clarke St., Montreal, Que. |
| Mickles, John Butler | Com. 1 | 696 Pine Ave. West, Moutreal, Que. |
| Mickles, Lovell Grant | Com. 2 | 696 Pine Ave. W., Montreal, Que. |
| Middleton, Lyall A | Med. 5 | Lachute, Que. |
| Middleton, William | Med. 5 (Final) | 61 Cambridge St., Victoria, B.C. |
| Miles, Leslie Hilliar | Soc. Workers | c/o Overseas Club, St. James St., London, Eng. |
| Millar, Ida Louise | Arts 1 | Drummondville, Que. |
| Miller, Arthur Pirie | Ap. Sci. 4 (Me.) | 40 Ballantyne Ave. N., Montreal West, Que. |
| Miller, Chauncey Alvin | Med. 1 | 263 Old Orchard Ave., Montreal, Que. |
| Miller, David | Arts 3 (Hon.) | 513 Phillips Square, Montreal, Que. |
| Miller, John James Hutchison | Ap. Sci. 3 (Me.) | 44 Sunnyside Ave., Westmount, Que. |
| Miller, Joseph States (Course B.Sc., M.D.) | Arts 4 | 760 Notre Dame St. W., Montreal, Que. |
| Miller, Julius Leon | Ap. Sci. 2 | 136 Vendome Ave., Montreal, Que. |
| Miller, Louis | Dent. 3 | 1625 Jeanne Mance St., Montreal, Que. |
| Miller, Noah | Med. 4 | 513 Philip Square, Montreal, Que. |
| Miller, Samuel | Arts 1 (B.Sc.) | 679 Laval Ave., Montreal, Que. |
| Milley, Samuel Scott | Arts P | Western Bay, Nfld. |
| Milligan, James Alexander | Ap. Sci. 2 | 108 Edison Ave., St. Lambert, Que. |
| Milligan, Marjorie Kerr | Grad. Nurses | 30 Helen St., Saranac Lake, N.Y. |
| Milligan, William A | Med. 3 | Cornwall, Ont. |
| Millington, Frank | Com. 3 | 89 Ash Ave., Montreal, Que. |
| Millman, Aaron | Phar | 80 Laval Ave., Montreal, Que. |
| Mills, Andrew Kaye | Ap. Sci. 3 (Arch.) | 67 Fifth Ave., Ottawa, Ont. |
| Mills, Cecil Gordon | Ap. Sci. 3 (El.) | 884 Durocher Ave., Outremont, Que. |
| Milne, Edwin Manson | Com. 2 | 47 Wentworth St. S., Hamilton, Ont. |
| Milne, Hector MacDonald | Com. 1 | Box 523, New Glasgow, N.S. |
| Minnes, Robert Cortland | Ap. Sci. 1 | 183 Metcalfe St., Ottawa, Ont. |
| Mintzberg, Samuel | Arts 2 | 3050 Clarke St., Montreal, Que. |
| Mirsky, Isadore Arthur | Arts 1 (B.Sc.) | 1734 St. Lawrence Bldv., Montreal, Que. |
| Mirsky, Samuel | Med. 5 (Final) | 359 Cumberland St., Ottawa, Ont. |
| Mitchell, Arnold Wilberforce | Dent. 3 | 368 Victoria Ave., St. Lambert, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Mitchell, Terence Francis | Com. 2 | 718 Sherbrooke St. W., Montreal, Que. |
| Mitchell, Wallace Murray | Ap. Sci. 4 (Ci.) | 4630 St. Catherine St. W., Westmount, Que. |
| Moffat, Stuart Thomas | Ap. Sci. 1 | 926 Haywood Ave., Victoria, B.C. |
| Moffat, William | Med. 3 | 580 Windermere Ave., Toronto, Ont. |
| Monaker, Jacob (Course B.Sc., M.D.) | Arts 4 | 794 Bloomfield Ave., Outremont, Que. |
| Money, Grace (Cancelled February, 1924) | Soc. Workers | 3 Brunet Ave., Pt. Claire, Que. |
| Montgomery, Gordon | Com. 1 | 616 James St., Syracuse, N.Y. |
| Montour, Enos Theodore | Arts 1 | Hagersville, Ont. |
| Moodie, Edward Campbell | Ap. Sci. 1 | P.O. Box 665, Kelowna, B.C. |
| Mooney, Fraser Dudley | Med. 5 (Final) | Stellarton, N.S. |
| Moore, Alexander Whiteside | Ap. Sci. 3 (Mi.) | 1021 Pemberton Road, Victoria, B.C. |
| Moore, Alexander W. (Cancelled October 1923) | Ap. Sci. 4 (Mi.) | |
| Moore, Arthur Bruce B | Arts 1 | Mouth of Keswick, N.B., R.R. No. 3. |
| Moore, Ernest Nelson | Med. 3 | St. Chrysostome, Que. |
| Moore, James Gordon W | Ap. Sci. 2 | St. Johns, Que. |
| Moore, Lewis Nicholas | Ap. Sci. 1 | 427 Sunnyside Ave., Ottawa, Ont. |
| Moore, Mary Frances | Grad. Nurses | |
| Moore, Meredith Henderson | Ap. Sci. 2 | 271 Prince Arthur St., Montreal, Que. |
| Moore, William Herbert | Ap. Sci. 1 | 700 Atwater Ave., Montreal, Que. |
| Moran, Vera May | Arts 2 (B.Sc.) | 32 St. Cecile St., Montreal, Que. |
| More, Arthur Louis | Med. 2 | 170 Cabot St., Holyoke, Mass., U.S.A. |
| Morgan, George Senkler | Med. 5 (Final) | 4173 Western Ave., Westmount, Que. |
| Morici, Theodore | Med. 3 | 97 Grove St., Passaic, N.J., U.S.A. |
| Morrice, David Rousseaux | Com. 3 | 10 Redpath St., Montreal, Que. |
| Morris, Alymer Livingstone | Law 1 (B.C.L.) | 108 Dufferin Ave., Sherbrooke, Que. |
| Morris, Campbell | Dent. 4 | Ste. Therese de Blainville, Que. |
| Morris, Charles H (Cancelled October 1923) | Dent. 1 | Newcastle, N.B. |
| Morris, George Douglas | Med. 5 (Final) | 80 Askin St., London, Ont. |
| Morris, Geoffrey Marshall | Med. 3 | Windsor, N.S. |
| Morris, William Donald | Med. 5 (Final) | University of Alberta, Edmonton, Alta. |
| Morrison, Donald McKay | Grad. Sch | 1645-11th Ave. W., Vancouver, B.C. |
| Morrison, James Eric | Ap. Sci. 3 (Met.) | 156 Victoria St. E., Amherst, N.S. |
| Morrison, Lauchlin MacLean | Ap. Sci. 1 | Apt. 27, Westminster Apts., Halifax, N.S. |
| Morrison, Pauline Jack | Arts 1 | 6 Brown Ave., Quebec, Que. |
| Morrissy, Richard Herbert | Med. 5 (Final) | Newcastle, N.B. |
| Morrow, Carl Edward L | Med. 3 | Metcalfe, Ont. |
| Morton, Christina Margaret | Arts 4 (Hon.) | 1172 Cote St. Antoine Road, Westmount, Que. |
| Morton, John White | Arts P | 1172 Cote St. Antoine Road, Westmount, Que. |
| Moscovitch, Jacob | Med. 3 | 205-5th Ave. S., Lethbridge, Alta. |
| Moseley, Herbert Frederick (Course B.A., M.D.) | Arts 2 | Lunenburg, N.S. |
| Moskovitch, Samuel | Arts 3 (Hon.) | 15 McNicoll Ave., Outremont, Que. |
| Mosley, William | Med. 2 | 102 Dorothy St., Welland, Ont. |
| Mount, Alethea Maud | Arts 2 | 134 St. Charles St., Longueuil, Que. |
| Mousley, Neville | Com. 1 | Hatley, Que. |
| Mowat, Glenford Albert | Med. 2 | Campbellton, N.B. |
| Mowat, John Kennedy (Cancelled January 1924) | Ap. Sci. 2 | Williamstown, Ont. |
| Mueller, Walter Charles | Com. 2 | 43 Young St., Waterloo, Ont. |
| Muhlstock, David Harry | Dent. 3 | 458 St. Dominique St., Montreal, Que. |
| Muir, Allen Kenneth | Ap. Sci. 4 (Mi.) | Burford, Ont. |
| Muir, William Edmond | Med. 2 | 111 Metropolitan Ave., Roslindale, Mass. |
| Mules, Nathan Ernest | Ap. Sci. 2 | 1539 Hutchison St., Montreal, Que. |
| Mullan, Eleanor | Arts 1 | 54 Overdale Ave., Montreal, Que. |
| Muller, Margaret (Cancelled January 1924) | Arts 1 | 842 Oxenden Ave., Montreal, Que. |
| Mulligan, Claude Aylmer | Ap. Sci. 4 (Ci.) | Maniwaki, Que. |
| Mulligan, Helen | Arts 1 | River Desert, Que. |
| Mulligan, Henry Iveson | Ap. Sci. 2 | Fort Coulonge, Que. |
| Mulligan, Marjorie Mildred | Arts 1 | River Desert, Que. |
| Munn, W. H. Blanchard | Med. 3 | Summerland, B.C. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Munn, Wilfred Lockerby | Com. 3 | 4273 Dorchester St. W., Westmount, Que. |
| Munro, David Climie | Arts 1 | 214 Logan St., St. Lambert, Que. |
| Munro, Donald Scott | Ap. Sci. 2 | 356 St. Catherine Road, Outremont, Que. |
| Munro, Gordon H | Ap. Sci. 4 (Me.) | 520 Dickson St., Peterborough, Ont. |
| Munro, Lloyd Alexander | Grad. Sch | Stellarton, N.S. |
| Munroe, Herbert James | Dent. 3 | 131 Henderson Ave., Ottawa, Ont. |
| Murphy, Arthur Payne | Ap. Sci. 2 | 504 Dufferin Ave., London, Ont. |
| Murphy, Francis John | Med. 5 | Red Deer, Alta. |
| Murphy, Francis Joseph | Med. 3 | 10½ Patterson St., Belleville, Ont. |
| Murphy, Frank Cyril | Com. 2 | 433 Selkirk Ave., Fort William, Ont. |
| Murphy, John Herbert | Arts 2 (B.Sc.) | 620 Victoria Ave., Westmount, Que. |
| Murphy, Sheila | Arts P | 94 Westmount Blvd., Westmount, Que. |
| Murray, Annie Mary | Arts 4 | Milan, Que. |
| Murray, Bertram Spence | Arts 2 (Hon.) | 743 University St., Montreal, Que. |
| Murray, Constance Aileen (Cancelled December 1923) | Arts 1 | 254 Douglas Ave., St. John, N.B. |
| Murray, David Fraser | Med. 5 (Final) | 927 Collinson St., Victoria, B.C. |
| Murray, John William | Ap. Sci. 3 (Me.) | 670 Sherbrooke St. W., Montreal, Que. |
| Murray, Mae Florence | Arts 1 | 370 Elm Ave., Westmount, Que. |
| Murray, Margaret Agnes (Cancelled January 1924) | Arts 1 | 670 Sherbrooke St. W., Montreal, Que. |
| Murray, Phyllis | Soc. Workers | 340 Hingston Ave., Montreal, Que. |
| Murray, Phyllis Marjorie | Arts 4 (Hon.) | 4 Moncton Ave., Quebec, Que. |
| Murray, Ruth Elizabeth | Arts 1 | 51 Belvedere Road, Westmount, Que. |
| Murray, William Reginald | Dent. 3 | Shediac, N.B. |
| Myers, Jacob | Arts 2 (Hon.) | 1931 Esplanade Ave., Montreal, Que. |
| Myers, Saul Jack | Arts P | 154 Laurier Ave. W., Montreal, Que. |
| Myler, Bernard James (Cancelled January 1924) | Ap. Sci. 1 | 29 Garneau St., Quebec, Que. |
| Nadler, Samuel Bernard | Arts 2 | 75 Mt. Royal Ave. W., Montreal, Que. |
| Nairn, A. Gordon | Arts 3 (Hon.) | 805 Shuter St., Montreal, Que. |
| Napier, Chas. Edward | Ap. Sci. 3 (Me.) | 248 Prince Arthur St. W., Montreal, Que. |
| Nash, Arthur Beynon | Med. 4 | 1005 Pemberton Road, Victoria, B.C. |
| Nathanson, Louis | Med. 4 | 760 Victoria Road, Sydney, N.S. |
| Nathanson, Max | Ap. Sci. 2 | 1568 Hutchison St., Montreal, Que. |
| Nathanson, Rachel | Phar | 1395 St. Dominique St., Montreal, Que. |
| Neel, Donald Smith | Ap. Sci. 1 | Millburn, N.J., U.S.A. |
| Neelin, William | Com. 1 | Carleton Place, Ont. |
| Neiderhoffer, Sydney Louis (Course B.A., M.D.) | Med. 1, Arts 3 | 670 Durocher Ave., Outremont, Que. |
| Nelligan, John B (Cancelled October 1923) | Ap. Sci. 3 (El.) | |
| Nelligan, Lawrence Patrick | Med. 4 | St. Louis, P.E.I. |
| Nelson, Julius | Med. 5 | 404 Bristol St., Brooklyn, N.Y. |
| Neroutsos, Cyril Wolton | Ap. Sci. 2 | 2446 Point Grey Road, Vancouver, B.C. |
| Newman, Archibald H (Cancelled November 1923) | Arts 1 | 10, Gladstone Ave., Westmount, Que. |
| Newton, Frederick Lonsdale (Cancelled January 1924) | Arts 1 | Athens, Ont. |
| Newton, Theodore Francis M | Arts 3 (Hon.) | 188 Brock St. S., Sarnia, Ont. |
| Nichol, Jean | Grad. Sch | 110 Columbia Ave., Westmount, Que. |
| Nichols, Iris Allo | Arts 1 | 81 Chesterfield Ave., Westmount, Que. |
| Nicholson, David George | Ap. Sci. 1 | 4412 St. Catherine St., Westmount, Que. |
| Nickle, Alfred Nelson | Arts 1 | 294 Marlowe Ave., Montreal, Que. |
| Nicoll, Howard | Arts P | Lachute, Que. |
| Nieghorn, Marjorie | Arts 3 (B.Sc.) | 4878 Westmount Ave., Westmount, Que. |
| Nitsche, Paul Herman | Med. 2 | The Dalles, Oregon, U.S.A. |
| Nixon, Isobel | Arts 2 (Hon.) | 647 Belmont Ave., Westmount, Que. |
| Noonan, Wilfred James Vincent | Med. 5 (Final) | 541 Greene Ave., Westmount, Que. |
| Norman, Fred Taylor | Arts 3 | Bay Roberts, Nfld. |
| Norris, Herbert Bethel | Ap. Sci. 3 (El.) | 116 Aberdeen Ave., Montreal, Que. |
| Norris, Lillian Ellery | Arts 3 | 132 Douglas St., Victoria, B.C. |
| Novick, Heine Ezra | Arts 2 | 684b St. Dominique St., Montreal. Que. |
| Noyes, John Whiting | Ap. Sci. 2 | 11 Buckingham Ave., Montreal, Que. |
| Oberfeld, Harry | Med. 2 | 1433 Fabre St., Montreal. Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| O'Brien, Edson Minto | Ap. Sci. 4 (Ci.) | Noel, Hants Co., N.S. |
| O'Brien, Francis (Cancelled October 1923) | Arts | |
| O'Connor, Maurice Joseph | Med. 5 (Final) | Beauharnois, Que. |
| Odell, Elizabeth Winnifred | Grad. Nurses | 147 St. Luke St., Apt. 7, Montreal, Que. |
| O'Donnell, Hugh Emmett | Law 1. (B.C.L.) | 22 Bowen Ave., Sherbrooke, Que. |
| Ogilvy, John Angus | Law 1. (B.C.L.) | 53 Ballantyne Ave. N., Montreal West, Que. |
| Ogilvy, Robert Forrest | Ap. Sci. 4 (Ci.) | 165 Maple Ave., Hamilton, Ont. |
| O'Hagan, Howard | Grad. Sch., Law 2 (L.L.B.) | Lucerne, B.C. |
| O'Heir, Arthur Selden | Arts 1. | 92 Wellington St. S., Hamilton, Ont. |
| O'Heir, Hugh Bingham | Grad. Sch. | 92 Wellington St. S., Hamilton, Ont. |
| Oliver, Lola Gwendolyn | Soc. Workers | 93 Bayswater Ave., Ottawa, Ont. |
| Olmstead, John Gerald | Med. 5 | Y.M.C.A., Drummond St., Montreal, Que. |
| Olmsted, Alexander Ingersoll | Med. 2 | 215 James St. S., Hamilton, Ont. |
| Olver, Albert S | Ap. Sci. 2 | 424 Somerset St., Ottawa, Ont. |
| O'Mara, Michael J | Dent. 2 | 641 Brainard St., Detroit, Mich. |
| O'Regan, Charles Herbert | Med. 3 | 73 Elliot Row, St. John, N.B. |
| Orr, James McMaster | Dent. 2 | 230 Hibernia Road, Montreal, Que. |
| Osgood, Elizabeth Lee | Arts 2 (B.Sc.) | 286 Durocher Ave., Outremont, Que. |
| Osler, Philip Featherston | Ap. Sci. 4 (Mi.) | 1 Rosedale Road, Toronto, Ont. |
| Ostro, Harry | Phar. | 219 Querbes Ave., Outremont, Que. |
| Ostroff, Louis Joseph | Med. 2 | 876 City Hall Ave., Montreal, Que. |
| Owen, Lois Adele | Arts 3 (Hon.) | Charlottetown, P.E.I. |
| Owens, Keith Beaumont | Com. 2 | 206 Milton St., Montreal, Que. |
| Oxley, Kiel Heseltine | Arts 1 | 124 Victoria Ave., Longueuil, Que. |
| Packham, James McLeod | Dom. 3 | Brampton, Ont. |
| Palef, Harry | Com. 1 | 533 Bay St., Ottawa, Ont. |
| Pangman, Arthur Harry | Ap. Sci.. 1 | 1109 Queen Mary Road, Montreal, Que. |
| Paradis, A. (Cancelled November 1923). | Arts | |
| Parent, Robert Cecil | Grad. Sch. | Fredericton, N.B. |
| Parke, Muriel Ruth | Phy. Ed. 1 | 2148 Jeanne Mance St., Montreal, Que. |
| Parker, Helen Margaret (Course B.H.S.) | Arts 2 | 124 Northcliffe Ave., Montreal, Que. |
| Parker, John Bruce | Ap. Sci. 3 (El.) | 2066 Retallack St., Regina, Sask. |
| Parker, Olive Agnes | Arts 2 (Hon.) | Box 404, Coaticook, Que. |
| Parker, Robert Allan | Com. 2 | 402 Albert St. E., Sault Ste. Marie, Ont. |
| Parkin, Cecil Harcourt | Med. 2 | Anchovy Estate, Jamaica, B.W.I. |
| Parkins, Mildred Florence | Soc. Workers | 828 University St., Montreal, Que. |
| Parris, Ivan E. R. | Med. 2 | Brown's Town, Jamaica, B.W.I. |
| Parson, Percivale | Ap. Sci. 1. (Arch.) | Otterville, Ont. |
| Parsons, Nellie | Grad. Nurses | Lusk's Bight, Nfld. |
| Partridge, Sydney Charles | Ap. Sci. 3. (Met.) | 190 Cooper St., Ottawa, Ont. |
| Pascal, Israel Mortimer | Arts 1. | 1646 Hutchison St., Montreal, Que. |
| Pashley, Cuthbert Frith | Com. 2 | 607 Victoria Ave., Westmount, Que. |
| Paterson, Alexander Pierce | Ap. Sci. 3 (El.) | 92 Leinster St., St. John, N.B. |
| Paterson, Donald Kingsley | Ap. Sci. 3 (Me.) | 43 Arlington Ave., Westmount, Que. |
| Paterson, Janet Alexandra | Com. 1 | 7 Essex Ave., Montreal, Que. |
| Paterson-Smyth, Geoffrey Neville | Med 3 | 160 Windsor St., Montreal, Que. |
| Patrick, David Young (Cancelled January 1924) | Arts 1. | 9 Springfield Ave., Westmount, Que. |
| Patterson, Alfred Spaulding | Ap. Sci. 1. | 58 Ontario Ave., Hamilton, Ont. |
| Patterson, Arthur Lindo | Grad. Sch. | 3 Oxley Road, Watsford, Herts, Eng. |
| Patterson, K. W. G | Ap. Sci. 2. | Earlham Castle Hill, Parkstone. Dorset, England. |
| Patton, Donald Rand | Com. 2 | Oxford, N.S. |
| Patton, I. Jocelyn | Grad. Sch. | 2017 Jeanne Mance St., Montreal, Que |
| Peacock, Henry Arthur | Med. 4 | 196 Herkimer St., Hamilton, Ont. |
| Pearce, Ida Jane | Arts P | 106 St. Luke St., Montreal, Que. |
| Peck, Ellen Maude | Arts P | 56 Simpson St., Montreal, Que. |
| Pelletier, Réré Arthur | Grad. Sch. | 122 St. Famille St., Montreal, Que. |
| Pelton, George Maynard | Arts 1 | 15 Harvard Ave., Ottawa, Ont. |
| Pemberton, John S. B. | Ap. Sci. 1. | 19 Selkirk Ave., Montreal, Que. |
| Pendleton, Raymond King | Med. 4 | Islesboro, Me., U.S.A. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Pennington, Marjorie Jessie | Arts 4 | 63 St. Cyrille St., Quebec, Que. |
| Penrose, George Henry (Cancelled December 1923) | Arts 3 | Box 372, Leamington, Ont. |
| Perl, Saul Marcus | Com. 1 | 287 St. Joseph Blvd. W., Montreal, Que. |
| Perras, J. Rennie | Med. 1 | 65 Robert St., Ottawa, Ont. |
| Perrigard, George Maxim | Arts P | Wesleyan College, Montreal, Que. |
| Perrigard, Stanley Gordon | Com. P | 290 Bourgeois St., Montreal, Que. |
| Perrin, Kathleen Enid | Arts 3 (Hon.) | 4319 Montrose Ave., Westmount, Que. |
| Perry, Evelyn May | Phy. Ed. 2 | 47 Durocher St., Montreal, Que. |
| Perry, Helen Margaret | Grad. Sch. | 73 Worcester Lane, Waltham, Mass., U.S.A. |
| Perry, Marion Achsa | Arts 1 | Ayer's Cliff, Que. |
| Perry, Millicent Audrey | Arts 4 (Hon.) | 47 Durocher St., Montreal, Que. |
| Perry, Pansy Eileen | Arts 1 | 47 Durocher St., Montreal, Que. |
| Perry, Reginald S. | Ap. Sci. 2 (Arch.) | 47 Durocher St., Montreal, Que. |
| Perry, Stanley Z. | Arts 2 | 301 Fortune St., Montreal, Que. |
| Persh, Joseph (Cancelled Jan., 1924) | Arts 1 | Whitehall, N.Y., U.S.A. |
| Peterson, Frederick Olaf | Grad. Sch. | 2158 Jeanne Mance St., Montreal, Que. |
| Petrie, Edith | Arts 3 | 18 d'Aiguillon St., Quebec, Que. |
| Petrie, Edward A. | Med. 5 (Final) | 3 Leonard Ave., Ottawa, Ont. |
| Petzold, Henry Paul | Ap. Sci. 1 | 100 Somerville Ave., Westmount, Que. |
| Pfeiffer, Walter Moodie | Med. 3 | 36 de la Tour Ave., Quebec, Que. |
| Phelps, Maxwell Overlock (Course B.Sc., M.D.) | Arts 3 | Farmington, Conn., U.S.A. |
| Phelps, Paul Stetson | Arts 1 (B.Sc.) | Farmington, Conn., U.S.A. |
| Phillips, John Bernard | Ap. Sci. 1 | 252 Lasalle Road, Verdun, Que. |
| Phillips, Reginald O. (Died Feb. 12th, 1924) | Med. 5 | 15 Arnold St., Kingston, Jamaica. |
| Philpott, Newell Willard | Med. 4 | 1722 Jarvis Ave., Chicago, Ill. |
| Phipps, Charles Ferdinand | Ap. Sci. 4 (El.) | Langford P.O., Vancouver Island, B.C. |
| Pidgeon, Nettie Amanda (Course B.A., M.D.) | Arts 4 Med. 2 | 381 Northcliffe Ave., Montreal, Que. |
| Pierce, Sydney | Law 2 (B.C.L.) | 724 Upper Belmont Ave., Westmount, Que. |
| Pigot, Charles Hugh | Ap. Sci. 3 (Ci.) | 144 Grande Allée, Quebec, Que. |
| Pinhey, John Wolfenden | Med. 5 (Final) | Hudson Heights, Que. |
| Pinhey, Wilbur Harris | Ap. Sci. 3 (Met.) | 424 Bank St., Ottawa, Ont. |
| Pitt, William J | Ap. Sci. 3 (Mi.) | Santiago de Cuba, Cuba. |
| Plant, Herbert Arnold | Ap. Sci. 1 | Port Antonio, Jamaica, B.W.I. |
| Plouffe, Lionel Louis | Med. 2 | 82 Hamilton St., Southbridge, Mass., U.S.A. |
| Plonsky, Samuel | Arts 1 B.Sc.) | 233 Edward Charles St., Montreal, Que. |
| Plow, Gordon Locklin | Ap. Sci. 4 (Ci.) | 316 Kensington Ave., Westmount, Que. |
| Plumptre, Joyce Mary | Phy. Ed. 1 | 3 Dunbar Road, Toronto, Ont. |
| Podvoll, Samuel Maxwell | Med. 4 | 11122-112th St., Woodhaven, N.Y., U.S.A. |
| Pollack, Joseph | Dent. 3 | 1479 St. Lawrence Blvd., Montreal, Que. |
| Pollock, Thomas Douglas | Ap. Sci. 4 (Ci.) | 396 Northcliffe Ave., Montreal, Que. |
| Poole, Wylie Ethelbert | Arts P | 1251St. Urbain St., Montreal, Que. |
| Pope, Charles Leslie | Med. 5 (Final) | Richmond, Que. |
| Pope, Saxton Temple | Med. 2 | 249 Cherry St., San Francisco., Cal., U.S.A. |
| Popliger, Sophie | Arts 2 | 734 Shuter St., Montreal, Que. |
| Poppo, Martin Joseph | Arts 2 | 214 St. Antoine St., Montreal, Que. |
| Portal, Francis Spencer | Com. 2 | Bere Hill, Whitchurch, Hampsaire, England. |
| Porter, Donald Francis W | Med. 5 | Fredericton, N.B. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Post, Gilbert Cameron | Med. 3 | Wnitney, Ont. |
| Potter, Gabriel Julian C | Ap. Sci. 3 (Chem.) | Goodwill, Dominica, B.W.I. |
| Potter, Walter Baden-Powell | Com. 2 | 148 Crawford St., Sarnia, Ont. |
| Powell, Eleanore Isobel | Phy. Ed. 2 | 52 Delaware Ave., Ottawa, Ont. |
| Poyas, Morton Louis | Med. 2 | 12 King Square, St. John, N.B. |
| Pratt, William Frederick White | Law 3 (B.C.L.) | 399 Clarke Ave., Westmount, Que. |
| Presner, Jack Copple | Med. 5 | 1497 St. Urbain St., Montreal, Que. |
| Presner, Samuel David | Phar. | 56a Shearer St., Montreal, Que. |
| Pretty, Henry Gu th | Med. 5 | 141 Hunter St. E., Peterborough, Ont. |
| Price, Frederick Avery | Ap. Sci. 2 | c/o Price Bros. Ltd., Quebec, Que. |
| Prichard, Olive M. M | Arts 3 (B.Sc.) | 121 Quebec St., Sherbrooke, Que. |
| Priestman, Bryan | Grad. Sch. | Gunterstone Road, Barons' Court W. 14, London, England. |
| Pringle, John Buchanan | Ap. Sci. 4 (El.) | 167 Rozel St., Montreal, Que. |
| Prince, George Hector (Cancelled Jan., 1924). | Com. 2 | Battleford, Sask. |
| Procter, Arthur P | Med. 4 | 3637 Angus Ave., Vancouver, B.C. |
| Prowse, Phebe | Phy. Ed. 2 | St. John's, Nfld. |
| Prudham, William Merrill | Ap. Sci. 3 (El.) | Drayton, Ont. |
| Puddicombe, Donald Harry | Com. 1 | 410 Queen St., Ottawa, Ont. |
| Puddicombe, George Beverly | Law 1 | 410 Queen St., Ottawa, Ont. |
| Puddicombe, John Heins | Med. 4 | 410 Queen St., Ottawa, Ont. |
| Pulkinghorn, Madeline Anne | Phy. Ed. 2 | 527 Gilmour St., Peterborough, Ont. |
| Punde, Herbert August | Com. 2 | 5 Sussex Ave., Montreal, Que. |
| Quackenbush, Hugh Arnley | Med. 3 | 43 Florence St., Ottawa, Ont. |
| Quackenbush, James Gordon | Med. 5 (Final) | 43 Florence St., Ottawa, Ont. |
| Quackenbush, Roderick Stanley | Arts 1 | 43 Florence St., Ottawa, Ont. |
| Quinlan, Harry Francis | Med. 2 | Trout Creek, Ont. |
| Quinlan, John Joseph David | Com. 2 | 323 Redfern Ave., Westmount, Que. |
| Quinn, Harry Leo | Arts 1 (B.Sc.) | 58 Judson St., Albany, N.Y., U.S.A. |
| Rabinovitch, Boaz | Med. 3 | 213 Laval Ave., Montreal, Que. |
| Rabinovitch, Issie | Med. 1 | 213 Laval Ave., Montreal, Que. |
| Rabinovitch, Jacob | Med. 5 (Final) | 213 Laval Ave., Montreal, Que. |
| Rabinovitch, Phineas | Med. 5 | 213 Laval Ave., Montreal, Que. |
| Rabinovitch, Reuben Robert | Arts 3 (Hon.) | 163 Esplanade Ave., Montreal, Que. |
| Racey, Herbert John | Ap. Sci. 1 | 26 Winchester Ave., Westmount, Que. |
| Rae, David George Lewis | Ap. Sci. 1 | 2633 Gouin Blvd., Cartierville, Que. |
| Rafolovitch, Dave | Med. 3 | 29 Park Ave., Montreal, Que. |
| Rafolovitch, Joseph Samuel | Med. 3 | 29 Park Ave., Montreal, Que. |
| Raginsky, Bernard | Med. 3 | 468 Bloomfield Ave., Outremont, Que. |
| Ramjohn, Mohamed Rahman | Med. 5 | 73 Cipero St., San Fernando, Trinidad, B.W.I. |
| Ramsay, Clyde Neville | Med. 5 (Final) | 90 Undercliffe Road, Montclair, N.J. |
| Rankin, Gerald Crisfield | Med. 5 (Final) | c/o Y.W.C.A., Edmonton, Alta. |
| Rankin, William Donald | Med. 3 | Woodstock, N.B. |
| Ransom, Audrey Isabel | Arts P | 18 Melbourne Ave., Westmount, Que. |
| Ransom, Howard Charles Lindsay | Ap. Sci. 1 | 18 Melbourne Ave., Westmount, Que. |
| Rapkine, Louis | Med. 3 | 366 Laval Ave., Montreal, Que. |
| Rapp, Isidore | Arts 3 (Hon.) | 325 De l'Epée Ave., Outremont, Que. |
| Ratner, Max | Med. 4 | 1774 Clarke St., Montreal, Que. |
| Ratner, Minnie | Arts 2 | 106 Marlowe Ave., Montreal, Que. |
| Ray, Walter Reginald G | Ap. Sci. 3 (Me.) | 142 Ste. Anne St., Quebec, Que. |
| Read, Stanley M. Ellery | Grad. Sch. | 59 Melbourne St., Sherbrooke, Que. |
| Reaper, Clarence Paul | Ap. Sci. 4 (Ci.) | 391 Melrose Ave., Montreal, Que. |
| Rearden, John Boyle | Med. 3 | 24 Arch St., Springfield, Mass., U.S.A. |
| Redkevich, Cornelius (Cancelled Nov., 1923) | Law 1 | Budeliw, E., Galicia, Europe. |
| Redmond, Arthur Douglas | Med. 4 | Iroquois, Ont. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Redmond, James William | Med. 3 | 512 Broadway South, Boston, Mass., U.S.A. |
| Ree, Alex | Ap. Sci. 3 (Mi.) | 1377 Davies St., New Westminster, B.C |
| Reich, Nathan | Arts 3 (Hon.) | 1477 St. Urbain St., Montreal, Que. |
| Reid, Eustace Arkindale | Phar. | St. Johns, Barbados, B.W.I. |
| Reid, Florence Harriett | Arts 1 | Huntingdon, Que. |
| Reid, Francis Macdonald | Arts 3 (Hon.) | Simcoe, Ont. |
| Reid, Gerald Usborne | Ap. Sci. 1 | Portage du Fort, Que. |
| Reid, Herbert Gordon | Med. 5 (Final) | 405 Devon Court, Winnipeg, Man. |
| Reid, Kenneth | Ap. Sci. 2 | R.M.D. No. 1, Victoria, B.C. |
| Reid, Robert Grant | Med. 3 | Granville Ferry, N.S. |
| Reid, Thomas Francis | Med. 3 | 36 Milton St., Montreal, Que. |
| Renaud, Varette | Arts P | 33 Nelson Ave., Outremont, Que. |
| Render, Norman D | Med. 2 | Valentine, Nebraska, U.S.A. |
| Renshaw, Mrs. Mary | Soc. Workers | 152 St. Urbain St., Montreal, Que. |
| Reque, A. Dikka | Grad. Sch | 307 West 15th St., Minneapolis, Mo., U.S.A. |
| Rich, Harold Winthrop | Med. 1 | 10 Foster St., Palmer, Mass., U.S.A. |
| Richards, Mildred Bingay | Soc. Workers | 202 Westminster Ave., Montreal West, Que. |
| Richardson, Arthur Douglas | Dent. 4 | 43 Ballantyne Ave. N., Montreal West, Que. |
| Richardson, Eric Carleton | Med. 5 (Final) | 43 Ballantyne Ave. N., Montreal West, Que. |
| Richardson, Frederick Donald | Com. 2 | Chipman, N.B. |
| Richardson, John Maxwell | Ap. Sci. 1 | 48 Lawton Blvd., Toronto, Ont. |
| Richardson, Rod. McDougald | Ap. Sci. 4 (El.) | Box 674, Westville, N.S. |
| Richstone, Samuel | Dent. 4 | 2266 St. Urbain St., Montreal, Que. |
| Ridgeweli, Ernest Percy | Ap. Sci. 2 | 151 Drummond St., Montreal, Que. |
| Ridout, Andrew Maurice | Ap. Sci. 4 (Chem.) | 150 Marlowe Ave., Montreal, Que. |
| Riley, Frank T (Cancelled Jan. 1924) | Arts | 74 E. Oneida St., Oswego, N.Y., U.S.A. |
| Rinfret, Guy Raoul | Ap. Sci. 2 | 27 Hemlock Ave., Shawinigan Falls, Que. |
| Ring, Chester Allan | Ap. Sci. 2 | 113 Somerset St., Bangor, Me. |
| Rittenberg, Abraham Kramer | Med. 2 | 153 Vendome Ave., Montreal, Que. |
| Riva, Ronald Herrick | Ap. Sci. 3 (Ci.) | 237 Sherbrooke St. W., Montreal, Que. |
| Riven, Samuel | Med. 5 | 1112 St. Urbain St., Montreal, Que. |
| Roach, Robert Dickson | Med. 5 | Tatamagouche, N.S. |
| Robb, Frank Morse | Com. P | 4700 Western Ave., Westmount, Que. |
| Robb, Lionel James | Com. 1 | Huntingdon, Que. |
| Robb, Norman Findlay | Arts 3 | 166 Laurier Ave. W., Montreal, Que. |
| Robert, Lionel A | Phar. | 467 St. Hubert St., Montreal, Que. |
| Roberts, Dorothy | Arts 1 | 149 Drummond St., Montreal, Que. |
| Roberts, Dorothy Marion | Arts 1 | Granby, Que. |
| Roberts, George Arthur C | Med. 5 (Final) | 2061-4th Ave. E., Vancouver, B.C. |
| Roberts, Helen Louise | Phy. Ed. 2 | Belleville, Ont. |
| Roberts, Percie | Med. 4 | St. John's, Nfld. |
| Robertson, Annie (Mrs.) | Grad. Nurses | 436-5th Ave., Verdun, Que. |
| Robertson, Bazil Duncan | Med. 3 | 155 Queen St., St. John, N.B. |
| Robertson, Bert Hanly | Dent. 3 | Almonte, Ont. |
| Robertson, Carol Edna | Arts 4 (Hon.) | 143 Bayle St., Montreal, Que. |
| Robertson, Charles West | Com. 3 | 39 Linton Apt., Sherbrooke St. W., Montreal, Que. |
| Robertson, Hugh Douglas | Ap. Sci. 4 | 46 Herkimer St., Hamilton, Ont. |
| Robertson, James Ritchie | Med. 5 (Final) | 24½ South Park St., Halifax, N.S. |
| Robertson, Laura Sara | Arts 1 | 723 Pine Ave., Montreal, Que. |
| Robertson, Margaret | Phy. Ed. 1 | 174 Main St., Hull, Que. |
| Robertson, Melville S | Arts 1 | 461 Roslyn Ave., Westmount, Que. |
| Robertson, Russell W (Cancelled Oct. 1923) | Dent. 2 | |
| Robertson, Violet (Cancelled Feb. 1924) | Phy. Ed. 1 | 15 Lorne Ave., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Robertson, William Lewis | Arts 4 | 163 Gilmour St., Ottawa, Ont. |
| Robillard, Antoine Benjamin | Med. 5 (Final) | Abbotsford House, Abbotsford, Que. |
| Robins, Jeannie Dougall | Arts 4 (Hon.) | 314 Metcalfe Ave., Westmount, Que. |
| Robinson, Carmichael Dorothy | Arts 1 | 449 University St., Montreal, Que. |
| Robinson, Cecil S. K. | Com. 3 | 93 Devonshire Road, Walkerville, Ont. |
| Robinson, Harold F. (Cancelled Oct., 1923) | Ap. Sci. 4 (Chem.) | 418 Mt. Stephen Ave., Westmount, Que. |
| Robinson, Marie Isabel | Arts 1 | 533 Clarke Ave., Westmount, Que. |
| Robinson, Paul A. (Cancelled Oct., 1923) | Phar. P. | |
| Robinson, Stewart Alton | Dent. 1 | 226 Prince Arthur St. W., Montreal, Que. |
| Robison, Samuel Clifford | Grad. Sch. | Macdonald College, Que. |
| Roche, Laurence Elmore | Med. 5 (Final) | 37 Park Ave., Ottawa, Ont. |
| Rochester, William Laurence | Ap. Sci. 4 (Chem.) | 145 James St., Ottawa, Ont. |
| Rockwell, William Henry | Ap. Sci. 3 (Chem.) | River Herbert, N.S. |
| Rodger, W. Sherman (Course B.A., M.D.) | Med. 1 Arts 3 | Cowansville, Que. |
| Roe, Gordon Oscar | Ap. Sci. 1 | Ste. Anne de Bellevue, Que. |
| Rogers, John Tregloan | Grad. Sch. | Rouleau, Sask. |
| Rohrlick, Louis Henry | Law 2 (B.C.L.) | 42 Laurier Ave. W., Montreal, Que. |
| Roncarelli, Francis | Arts P. Com. P. | 67 Osborne St., Montreal, Que. |
| Roseborough, Albert Skiffington | Med. 5 (Final) | Vermillion, Sask. |
| Rosen, Bernadine Reba | Arts P. | 1666 Hutchison St., Montreal, Que. |
| Rosen, Ernest | Phar. | 861 City Hall Ave., Montreal, Que. |
| Rosen, Florence (Cancelled Nov., 1923) | Arts P. Soc. Workers. | 810 Cote St. Antoine Road, Westmount, Que. |
| Rosen, Gertrude Thelma | Com. 1 | 810 Cote St. Antoine Road, Westmount, Que. |
| Rosenbaum, Saul | Med. 5 | 475 St. James St., Montreal, Que. |
| Rosenberg, Arthur Fabian | Dent. 2 | 2590 Park Ave., Apt. 7, Montreal, Que. |
| Rosenbloom, Lewis Isaac | Com. 1 | 77 Quebec St., Sherbrooke, Que. |
| Rosenhek, Clarence Clayton | Arts 1 | 1869 Esplanade Ave., Montreal, Que. |
| Rosenthal, Arthur Aubie | Med. 3 | 785 Hancock Ave., Bridgeport, Conn., U.S.A. |
| Rosenthal, Max | Med. 2 | 1469 St. Urbain St., Montreal, Que. |
| Ross, Allan Evans | Arts 4 (B.Sc.) | 31 Bruce Ave., Westmount, Que. |
| Ross, Alan Simpson | Med. 3 | 414 Bourgeois St., Montreal, Que. |
| Ross, Edyth Sybil M. | Grad. Nurses. | Apt. 10, 222 Stanley St., Montreal, Que. |
| Ross, Francis Graham | Arts 3 (Hon.) | 506-7th Ave., Vancouver, B.C. |
| Ross, Hugh Graham | Med. 5 (Final) | 414 Bourgeois St., Montreal, Que. |
| Ross, Hugh Gordon | Ap. Sci. 3 (El.) | 15 Linden Terrace, Ottawa, Ont. |
| Ross, James Brodie | Med. 5 (Final) | 414 Bourgeois St., Montreal, Que. |
| Ross, John Arthur | Com. 1 | Ship Canal, Sault Ste. Marie, Ont. |
| Ross, Malcolm MacGregor (Course B.A., M.D.) | Med. 1 Arts 3 | 165 Prince St., Charlottetown, P.E.I. |
| Ross, Mary Cecilia Mackay | Arts 1 | 140 Clanranald Ave., Montreal, Que. |
| Ross, Stewart Hamilton | Ap. Sci. 3 (Mi.) | Stanstead, Que. |
| Ross, Dorothy Vernon | Arts 4 (Hon.) | 109 Crescent St., Montreal, Que. |
| Ross, Trevor Durnford (Cancelled Feb., 1924) | Com. 2 | 823 University St., Montreal, Que. |
| Ross, William Bruce | Ap. Sci. 1 | 367 Metcalfe Ave., Westmount, Que. |
| Ross, William Bruce | Ap. Sci. 2 | Coniston, Ont. |
| Roth, Irving Herbert (Cancelled Jan., 1924) | Arts P. | 357 Esplanade Ave., Montreal, Que. |
| Rothwell, John Cecil | Med. 4 | Lanark, Ont. |
| Rountree, Syble Thorne | Arts 4 | 445 Mt. Stephen Ave., Westmount, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Rousseau, François | Ap. Sci. 1 | Montmagny, Que. |
| Routledge, George Lawson | Med. 5 (Final) | Unity, Sask. |
| Routtenberg, Hyman Jack (Cancelled Feb., 1924) | Com. 1 | 1574 Esplanade Ave., Montreal, Que. |
| Row, William Stanley | Ap. Sci. 1 | Currie, Ont. |
| Rowan, Arthur Alexander | Med. 5 (Final) | Rowan Place, St. John, N.B. |
| Roy, Alice Rosslyn | Phy. Ed. 2 | 61 Norwood Ave., Ahuntsic, Que. |
| Roy, Leo Martin (Cancelled Jan. 1924) | Arts 1 | Pembina, N.D., U.S.A. |
| Rubin, Abraham | Arts 1 | 274 Jeanne Mance St., Montreal, Que. |
| Rubin, Anne | Arts P | 467 Durocher Ave., Montreal, Que. |
| Rubin, Nathan William | Med. 3 | 182 Prince Edward St., St. John, N.B. |
| Rubin, Saul | Med. 5 | c/o Midlake Feed & Milling Co., Kirkland, Wash., U.S.A. |
| Rubinstein, Joseph | Arts 2 | 696 Cadieux St., Montreal, Que. |
| Rudenko, Samuel David | Law 3 (B.C.L.) | 3009 Papineau Ave., Montreal, Que. |
| Rudman, Allan | Phar | 1443 Alexandra St., Montreal, Que. |
| Rudy, Riva | Arts 1 | 986 St. Lawrence Blvd., Montreal, Que. |
| Rumpel, George Hilborn | Ap. Sci. 4 (Chem.) | 39 Cameron St. S., Kitchener, Ont. |
| Runnells, Lillian Kathleen | Arts 1 | 2015 Hutchison St., Montreal, Que. |
| Runnells, Orlean | Soc. Workers | 2015 Hutchison St., Montreal, Que. |
| Rusofsky, Harry (Cancelled Dec., 1923) | Med. 5 | 604a Henri Julien St., Montreal, Que. |
| Russel, Dorothy Margaret | Phy. Ed. 2 | c/o Canadian Explosives Ltd., Birks Bldg., Vancouver, B.C. |
| Russell, Eileen Disney | Arts 4 (Hon.) | 1821 Haro St., Vancouver, B.C. |
| Russell, James Venner | Arts 1 | 125 Douglas Ave., St. John, N.B. |
| Russell, Mary | Soc. Workers | 940 Water St., Indiana, Penn., U.S.A. |
| Rutherford, Elizabeth Marjorie | Phy. Ed. 1 | 61 Rosemount Ave., Westmount, Que. |
| Rutherford, James Forest | Ap. Sci. 2 | 4210 Western Ave., Westmount, Que. |
| Ryan, Charles Percival | Com. 1 | Watertown, N.Y. |
| Ryan, Joseph James | Med. 5 (Final) | 33 Laporte Ave., Montreal, Que. |
| Ryan, Max | Med. 3 | Old Lyme, Conn., U.S.A. |
| Saibil, David | Arts 1 | 2630a St. Urbain St., Montreal, Que. |
| Saibil, Moses | Med. 2 | 2630a St. Urbain St., Montreal, Aue. |
| Salmon, J. D. (Cancelled October 1923) | Arts | |
| Salomon, Florence Freda | Arts 1 | 179 Esplanade Ave., Montreal, Que. |
| Salter, Reignald Arnold | Med. 4 | Bridgetown, N.S. |
| Samit, Hirschel Charles | Arts 1 | 298 Pine Ave. W., Montreal, Que. |
| Sammett, Jeanette A (Course, B.Sc., M.D.) | Arts 3 | 551 Earnscliffe Ave., Montreal, Que. |
| Sampson, Ronald McNeil | Ap. Sci. 1 | North Hatley, Que. |
| Samuels, Bernard Beril | Arts 1 | 1320 Greene Ave., Westmount, Que. |
| Samuelson, Isadore Samuel | Law 3 | Burlington, Vt., U.S.A. |
| Sampson, Percy McKechnie | Arts P | 113 Blenheim Place, Westmount, Que. |
| Sanderson, Kathleen Isabel | Grad. Nurses | 1245 Park Drive, Vancouver, B.C. |
| Sangster, Muriel Isabel | Arts 3 (B.Sc.) | 100 Drummond St., Sherbrooke, Que. |
| Saunders, Leila Alexandra | Arts 1 | Summerside, P.E.I. |
| Savage, Mae Lucy | Arts 1 | 154 Ballantyne Ave. N., Montreal West, Que. |
| Savage, Myer Henry | Ap. Sci. 2 | 101 Hutchison St., Montreal, Que. |
| Savoie, Paul Cancelled November 1923() | Ap. Sci. 2 | |
| Saylor, Wesley Clarence | Com. 3 | Trenton, Ont. |
| Scanlan, Jeremiah Rene | Ap. Sci. 2 | 688 Charlevoix St., Montreal, Que. |
| Schachter, Moe M | Phar | 20 Fairmount Ave., Montreal, Que. |
| Schaefer, Sydney Louis (Cancelled October, 1923) | Law 1 | 255 Esplanade Ave., Montreal, Que. |
| Scheffer, O. A. (Cancelled Nov. 15th, 1923) | Arts | |
| Schain, Frank | Phar | 1049 St. Dominique St., Montreal, Que. |
| Scharf, Robbie E | Arts 1 | Edwards, Ont., R.R. No. 1 |
| Scheffer, Isidore Herbert | Med. 5 (Final) | 227 Laval Ave., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Scheffer, William | Dent. 2 | 227 Laval Ave., Montreal, Que. |
| Scherzer, Alfred Lazarus | Dent. 1 | 1560 Clarke St., Montreal, Que. |
| Schleien, Donna S. | Arts 1 | 2622 St. Hubert St., Montreal, Que. |
| Schleifer, Rupert Samuel | Arts 1 (B.Sc.) | 34 Prince Albert St., Kingston, Ja. |
| Schleifer, Sol | Arts 3 (Hon.) | 2590 Park Ave., Montreal, Que. |
| Schleifstein, Joseph Isaac | Med. 5 (Final) | 822 St. Lawrence Blvd., Montreal, Que. |
| Schleifstein, Montague L. | Ap. Sci. 4 (Chem.) | 351 Edward Charles St., Montreal, Que. |
| Schlesinger, Israel Abraham | Med. 2 | 790 City Hall Ave., Montreal, Que. |
| Schneiderman, Samuel (Cancelled Jan. 15th, 1923) | Arts 1 | 1335 St. Lawrence Blvd., Montreal, Que. |
| Schofield, Frederick Chipman | Com. 2 | 48 Carleton St., St. John, N.B. |
| Schor, Frank N (Cancelled Nov. 15th, 1923) | Arts 1 | 35 Nelson Ave., Outremont, Que. |
| Schwartz, Elizabeth | Arts 1 | 529 Durocher Ave., Outremont,Que. |
| Schwartz, Hyman | Dent. 3 | 624 Notre Dame St. W., Montreal, Que. |
| Schwartz, Israel | Med. 2 | 82 Prince Arthur St. E., Montreal, Que. |
| Schwartz, Louis | Arts 1 | 282 St. Antoine St., Montreal, Que. |
| Schwartz, Max | Com. 1 | 529 Durocher Ave., Outremont, Que. |
| Schwartz, Max Alter | Arts 1 | 405 Esplanade Ave., Montreal, Que. |
| Schwartz, Max Louis | Arts 2 (Hon.) | 844 City Hall Ave., Montreal, Que. |
| Schwartz, Sylvia | Arts 3 (Hon.) | 62 Des Prairies St., Quebec, Que. |
| Schwartzman, Jacob | Med. 3 | 655 St. Urbain St., Montreal, Que. |
| Schwisberg, Cyril E. (Cancelled October, 1923) | Arts 1 | 181 Esplanade Ave., Montreal, Que. |
| Schwisberg, Samuel Edgar | Law 1 (B.C.L.) | 181 Esplanade Ave., Montreal, Que. |
| Schippel, Walter Herbert | Grad. Sch. | 573 Durocher Ave., Outremont, Que. |
| Scofield, Clifford Gustavus | Ap. Sci. 2 | 329 Roslyn Ave., Westmount, Que. |
| Scott, Esther (Mrs.) | Law P | 422 Metcalfe Ave., Westmount, Que. |
| Scott, George Alexander | Grad. Sch. | Perth, Ont. |
| Scott, Gertrude E | Arts P | 50 Windsor Ave., Westmount, Que. |
| Scott, Gordon Hilbert | Med. 3 | 6037 Fraser Ave., Vancouver, B.C. |
| Scott, Katherine H | Grad. Nurses | Martintown, Ont. |
| Scott, Robert Maxwell | Med. 4 | Wallaceburg, Ont. |
| Scriver, Isabelle Stearns | Arts 1 | 4425 St. Catherine St. W., Montreal, Que. |
| Seagram, Joseph Edward F | Arts 1 | 329 Roslyn Ave., Westmount, Que. |
| Seale, Francis Leonard | Com. 1 | 154 Maple Ave., Quebec, Que. |
| Seale, Lewis William | Com. 3 | 154 Maple Ave., Quebec, Que. |
| Seale, Milton | Ap. Sci. 3 | 818 Atwater Ave., Montreal, Que. |
| Sealy, Geraldine (Mrs.) | Soc. Workers | 155 Lusignan St., Montreal, Que. |
| Seaton, Arthur William | Arts P | Radcliffe on Trent, Notts, England. |
| Seaton, Charles Henry | Com. 2 | 152 Metcalfe St., Montreal, Que. |
| Secord, Frances Rebecca | Arts 2 (Hon.) | 4912 Sherbrooke St. W., Westmount, Que. |
| Segal, Benjamin Wolf | Med. 5 (Final) | 136a Drolet St., Montreal, Que. |
| Segal, Nessie | Arts P | 154 St. Famille St., Montreal, Que. |
| Seidman, Moses Bernard | Arts 1 | 45 Nelson Ave., Outremont, Que. |
| Seller, Charles Reginald | Dent. 1 | 43 De Razilly St., Montreal, Que. |
| Sellars, Fred Moore | Arts P | |
| Seman, Herman Jospeh | Law 3 (L.L.B.) | 504 North Second St., Philadelphia, Pa., U.S.A. |
| Sénécal, Joseph Georges | Med. 5 | 2594 Park Ave., Montreal, Que. |
| Senkeivitz, Philip | Arts 1 (B.Sc.) | 2520 Bordeaux St., Montreal, Que. |
| Serchuk, Sadie | Arts 1 | 91 St. Paul St., Quebec, Que. |
| Sesseawein, Laurence | Arts 4 (Hon.) | 2 Amesbury Ave., Montreal, Que. |
| Shaffer, Henry | Med. 2 | 205 Esplanade Ave., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Shane, Harry | | |
| (Cancelled January, 1924) | Arts 1 | 732 Durocher Ave., Outremont, Que. |
| Shannon, Charlotte Alice | Phys. Ed. 1 | 661 Queen St. "E", Sault Ste. Marie, Ont. |
| Shapiro, Harold | | |
| (Cancelled January, 1924) | Arts 1 | 2214 Clarke St., Montreal, Que. |
| Shapiro, Harry Joseph | | |
| (Cancelled January 1924) | Arts P | 1659 Hutchison St., Montreal, Que. |
| Shapiro, Sophia | Arts 3 | |
| | (B.Sc.) | 1198 St. Urbain St., Montreal, Que. |
| Sharp, William Oswald | Com. 1 | 341 Cote St. Antoine Road, Westmount, Que. |
| Sharpe, James MacDonald | Ap. Sci. 3 | |
| | (El.) | 126 Lewis Ave., Westmount, Que. |
| Sharples, William Henry | Ap. Sci. 3 | |
| | (Me.) | 756 Sherbrooke St. W., Montreal, Que. |
| Shatford, Reginald Alexander | Ap. Sci. 3 | |
| | (Mi) | Vancouver, B.C. |
| Shaw, Gerald Edison | Ap. Sci. 4 | |
| | (Ci) | 218 Cameron Ave., Windsor, Ont. |
| Shaw, N. Laurie | Med. 1 | Navan, Ont. |
| Shaw, Robert Bruce | Med. 3 | 1275 Barclay St., Vancouver, B.C. |
| Shea, Daniel Francis | Law 2 | |
| | (B.C.L.) | 346 Grosvenor Ave., Westmount, Que. |
| Shepherd, John | Arts 1 | |
| | (B.Sc.) | 342 Magdalen St., Montreal, Que. |
| Shepherd, William F | Arts 2 | |
| | (Hon.) | 157 Edgehill Road, Westmount, Que. |
| Sherman, George Alexander | Med. 5 | |
| | (Final) | Scotstown, Que. |
| Sherrard, Edwin Atwater | Ap. Sci. 4 | |
| | (Me.) | 1 Forden Ave., Westmount, Que. |
| Sherwin, Lewis | Phar. | 1684 Clarke St., Montreal, Que. |
| Shlakman, Victor | Ap. Sci. 4 | |
| | (El) | 1768 Hutchison St., Montreal, Que. |
| Shmerling, Harry | Phar. | 442 Henri Julien St., Montreal, Que. |
| Short, Edwin James | Med. 2 | Hants Harbour, Nfld. |
| Shortall, Wilbert Joseph | Ap. Sci. 3 | |
| | (El) | 704 Cote St. Antoine Road, Montreal, Que. |
| Shotten, John Allison | Med. 2 | Kamloops, B.C. |
| Shotwell, Jonn Stuart G | Ap. Sci. 4 | |
| | (Chem.) | 68 Somerset St. W., Ottawa, Ont. |
| Sigsbee, Letty | Grad. Nurses | 387 Fourth Ave., Rosemount, Que. |
| Silk, Claude Whitehall | Med. 4 | 28a St. Famille St., Montreal, Que. |
| Silverberg, Myer | Arts 1 | 449 St. Lawrence Blvd., Montreal, Que. |
| Silsby, Charles Selden | Dent. 2 | Aurora, Maine, U.S.A. |
| Silsby, Samuel Schoppee | Med. 4 | Aurora, Maine, U.S.A. |
| Silver, Alice | Arts 3 | |
| | (Hon.) | 385 Beaconsfield Ave., Montreal, Que. |
| Silver, Edith | Arts P | 268 Prudhomme Ave., Montreal, Que. |
| Silver, Lydia Rowe | Arts 2 | 459 Mt. Pleasant Ave., Westmount, |
| | (Hon.) | Que. |
| Silver, Ralph Charles | Ap. Sci. 1 | Danville, Que. |
| Silverman, Archie | Arts 1 | 1769 St. Lawrence Blvd., Montreal, Que. |
| Silverman, Beatrice Ida | Arts 2 | |
| | (Hon.) | 753a City Hall Ave., Montreal, Que. |
| Silverman, David | Com. 2 | 525 St. Urbain St., Montreal, Que. |
| Silverman, Gertrude | | |
| (Course B.Sc., M.D.) | Arts 3 | 1769 St. Lawrence Blvd., Montreal, Que. |
| Silverman, Judah Mortimer | Arts 1 | |
| (Cancelled Jan., 1924) | (B.Sc.) | 408 Henri Julien St., Montreal, Que. |
| Silverman, Levi | Com. 3 | 192 Dorchester St. W., Montreal, Que. |
| Silverman, Minnie Clarice | Arts 4 | 1769 St. Lawrence Blvd., Montreal, Que. |
| Silverstone, Henry Leo | Arts 4 | 638 St. Catherine St. W., Montreal, |
| | (Hon.) | Que. |
| Silverstone, Oscar | Arts 1 | 943 St. Catherine St. W., Montreal, Que. |
| Simon, Robert Carleton | Ap. Sci. 2 | 123 Bourbonnière St., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Simpson, Harold I | Med. 5 | Springhill, N.S. |
| Simpson, James Catanach | Ap. Sci. 4 | 3 Queen Mary Apts., 10 Oldfield Ave., Montreal, Que. |
| Simpson, Jeremiah Claude | Med. 5 (Final) | Bay View Mills, P.E.I. |
| Sims, Edwin Beane | Com. 1 | 274 Bowan Ave., Sherbrooke, Que. |
| Sims, James Kenneth | Arts 1 | 26 Ahrens St., Kitchener, Ont. |
| Sinclair, Harry Arthur | Med. 2 | 249 Hampton Ave., Montreal, Que. |
| Sinclair, Harry | Phar. | 247 Hampton Ave., Montreal, Que. |
| Singer, Frank Louis | Phar. | 421 Esplanade Ave., Montreal, Que. |
| Sivertz, Christian | Grad. Sch. | 1278 Derman St., Victoria, B.C. |
| Skeet, Harold James | Med. 5 (Final) | 4 Meredyth Road, Barnes, Surrey, England. |
| Skelley, Albert James | Med. 5 (Final) | 596 O'Conner St., Ottawa, Ont. |
| Skinner, Peter Searle | Med. 4 | 1443 Clifton St. N.W., Washington, D.C. |
| Slack, Zerada | Phy. Ed. 2 | 165 Cote des Neiges Road, Montreal, Que. |
| Slattery, Patrick | Ap. Sci. 1 | 10 Gordon St., Sherbrooke, Que. |
| Sleeman, Bertram Austin | Com. 3 | 111 Waterloo Ave., Guelph, Ont. |
| Sloan, Ambrose Victor | Med. 5 (Final) | Vinton, Que. |
| Smaill, Aileen M | Phy. Ed. 1 | Huntington, Que. |
| Smallman, Ralph Benjamin | Med. 5 (Final) | Wolfville, N.S. |
| Smellie, Jean Christina | Arts 1 | Arundel, Que. |
| Smilovitz, Samuel Julius | Arts 1 | 34 Des Fosses St., Quebec, Que. |
| Smirle, Denzal Robert | Ap. Sci. 1 | Billing's Bridge, Ont. |
| Smit, John Surman | Arts 1 | 532 St. Joseph St., Lachine, Que. |
| Smith, Arnold Wilshire | Ap. Sci. 1 | Hillcrest, Alta. |
| Smith, Arthur James M | Arts 3 (B.Sc., Hon.) | 79 Chesterfield Ave., Westmount, Que. |
| Smith, Bruce Taylor | Med. 5 | 246 Oxford St. W., Moose Jaw, Sask. |
| Smith, Clifford Bliss | Med. 4 | 242 Clifton Ave., Montreal, Que. |
| Smith, Donald D (Cancelled Jan., 1924) | Com. P | Wolfville, N.S. |
| Smith, Donald Flannery | Ap. Sci. 3 (Me.) | Sutton, Que. |
| Smith, Frederick Errol | Ap. Sci. 1 | 434 Lansdowne Ave., Westmount, Que. |
| Smith, Frederick McIver | Grad. Sch | 55 Clandeboye Ave., Westmount, Que. |
| Smith, Hamilton Ellesmere | Ap. Sci. 3 (Ci.) | 4191 Sherbrooke St. W., Westmount, Que. |
| Smith, Harry Ernest | Dent. 3 | 1864 Rae St., Regina, Sask. |
| Smith, Lanatt Hamilton | Arts 2 (Hon.) | 436 Sparks St., Ottawa, Ont. |
| Smith, Lister Emslie (Cancelled Feb., 1924) | Dent. 3 | Banff, Alta. |
| Smith, Muriel Thurston | Phy. Ed. 1 | 129 Mayfair Ave., Montreal, Que. |
| Smith, Paul Sherman | Arts 2 (Hon.) | Haweskbury, Ont. |
| Smith, Ralph Leaman | Arts 2 (Hon.) | 751a Querbes St., Outremont, Que. |
| Smith, Reginald James | Arts 3 | 58 McTavish St., Montreal, Que. |
| Smith, Thomas Hayden | Ap. Sci. 2 | 506 Perras St., Montreal, Que. |
| Smith, William Ronald | Com. 3 | 205 Rockland Road., St. John, N.B. |
| Smyth, Henry Ross | Ap. Sci. 1 | 4822 Western Ave., Westmount, Que. |
| Snetsinger, John D (Cancelled Dec., 1923) | Arts 1 | Montreal, Que. |
| Snijman, Johan Jacob | Grad. Sch. | Vryheid, Natal, South Africa. |
| Snow, Vernon A | Med. 3 | 283 Besserer St. Ottawa, Ont. |
| Snowball, Robert Archibald | Ap. Sci. 1 | 307 Pine Ave. W., Montreal, Que. |
| Snyder, Earle | Ap. Sci. 4 (Mi.) | St. Jacobs, Ont. |
| Snyder, Benjamin | Grad. Sch. | Rockport, Ind., U.S.A. |
| Socolow, Lovis (Cancelled Jan., 1924) | Med. 1 | 702 City Hall Ave., Montreal, Que. |
| Solloway, Edgar Dunn | Med. 4 | 1033 Pacific St., Vancouver, B.C. |
| Solomon, Freda | Arts 1 | 187 Esplanade Ave., Montreal, Que. |
| Solomon, Saul L | Arts 2 (Hon.) | 1517 Park Ave., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Somerville, Cecil G | Com. 2 | Colbyville, Ont. |
| Somerville, Donald Andrew | Dent. 3 | Bristol, N.B. |
| Somerville, George Aubrey | Arts 1 | Bristol, N.B. |
| Somerville, Lloyd Matthew | Arts 3 | Lanark, Ont., R.R. No. 4. |
| Somerville, Wellington W | Med. 1 | 533 Gwyean St., Windsor, Ont. |
| Sommer, Elsa Clara | Arts 1 | 107 Chomedy St., Montreal, Que. |
| Sommer, Isabel Henrietta | Arts 3 (Hon.) | 107 Chomedy St., Montreal, Que. |
| Sparkes, John Clarence | Arts 1 | 33 Golf Ave., St. John, Nfld. |
| Spector, Jack | Law 1 (B.C.L.) | 244 Fairmount Ave. W., Montreal, Que. |
| Spector, Leo | Arts 1 (B.Sc.) | 425 Durocher Ave., Outremont, Que. |
| Spector, Reuben | Arts 1 | 244 Fairmount Ave. W., Outremont, Que. |
| Spence-Thomas, William James | Com. 3 | Hazelwood, Handoff, South Wales. |
| Sperber, Lionel Albert | Law 3 (B.C.L.) | 141 Mt. Royal Ave. W., Montreal, Que. |
| Spiegel, Colin | Med. 1 | 237 Esplanade Ave., Montreal, Que. |
| Spitzer, Isidore | Phar. | 394 Colonial Ave., Montreal, Que. |
| Spriggs, Robert Hayward | Ap. Sci. 4 (Ci.) | Box 111, Ste. Anne de Bellevue, Que. |
| Squires, Henry Dayton | Grad. Sch. | Fredericton, N.B. |
| Stainsby, Wendell Johnson | Med. 5 | 1004 Eastlake Ave., Saskatoon, Sask. |
| Stalker, Murray Raymond | Med. 5 (Final) | Richmond, Que. |
| Staniforth, Randolph Perley | Arts 1 | Arundel, Que. |
| Star, Marcus | Dent. 2 | 103 Craig St. W., Montreal, Que. |
| Stark, Julius (Cancelled Nov., 1924) | Arts P | 13 Esplanade Ave., Montreal, Que. |
| Starke, Andrew Drake | Com. 3 | 144 James St., Ottawa, Ont. |
| Stattner, Philip | Arts 1 | 139 Pine Ave. E., Montreal, Que. |
| Steacie, Edgar William R | Grad. Sch. | 353 Grosvenor Ave., Westmount, Que. |
| Steacy, Ethel Dorothy | Arts 3 | 1 Spruce St., Ottawa, Ont. |
| Stearns, Eleanor | Arts P | 8 MacGregor St., Montreal, Que. |
| Steel, Dorothy | Grad. Nurses | 2462 Hutchison St., Montreal, Que. |
| Steeves, James Leigh | Dent. 3 | 83 Weldon St., Moncton, N.B. |
| Stein, Hyman Herbert | Com. 2 | 1465 St. Urbain St., Montreal, Que. |
| Stein, Louis | Ap. Sci. 1 | 2954 Papineau Ave., Montreal, Que. |
| Stein, William | Med. 4 | 30 Dorchester St. W., Montreal, Que. |
| Steinberg, Abraham | Dent. 2 | 1216 St. Urbain St., Montreal, Que. |
| Steine, Ben Zion | Med. 5 | 819 University St., Montreal, Que. |
| Steine, Lyon (Course B.Sc., M.D.) | Med. 2 Arts 4 | 819 University St., Montreal, Que. |
| Stenzler, Julius Samuel | Arts 1 | 6 Drolet St., Montreal, Que. |
| Stephenson, Harold Edgar | Com. 1 | 212 Brock Ave. N., Montreal West, Que. |
| Stephenson, Leslie | Com. 1 | 15 Princes Parade, Church End, Finchley, London, England. |
| Stethem, John Eric Holt | Ap. Sci. 4 (Ci.) | 832 Dorchester St. W., Montreal, Que. |
| Stevens, Walter Oscar | Ap. Sci. 3 (Me.) | c/o A. E. Stevens, Gen'l Supt., C.P.R., Winnipeg, Man. |
| Stevenson, Frederick Kirkland | Law 3 (B.C.L.) | 154 Metcalfe St., Montreal, Que. |
| Stewart, Donald | Ap. Sci. 3 (El.) | Sunnyside Ave., Lakeside, Que. |
| Stewart, Donald Laughlin | Ap. Sci. 4 (Me.) | Dunvegan, Ont. |
| Stewart, Duncan Winston | Arts P | 49 Westmount Blvd., Westmount, Que. |
| Stewart, Horace Hinman | Comp. P | Beebe, Que. |
| Stewart, Hugh Miller | Ap. Sci. 2 | Hillcrest Mines, Alta. |
| Stewart, John A | Med. 5 | Kinburn, Ont., R.R. No. 1. |
| Stewart, John Rufus | Ap. Sci. 1 | Beebe, Que. |
| Stewart, Leland Noel L | Arts 1 (B.Sc.) | Bluefields, Jamaica, B.W.I. |
| Stewart, Robert Douglas | Arts 1 (B.Sc.) | 322 Marquette St., Montreal, Que. |
| Stewart, Robert Nelson | Arts 3 | 250 Selkirk Ave., Chatham, Ont. |
| Stewart, William Franklin | Ap. Sci. 3 (El.) | P.O. Box 403, Antigonish, N.S. |
| St. George, Harry Stewart | Com. 1 | 150 Crescent St., Montreal, Que. |
| Stillwell, E. Marion | Grad. Nurses | 105 Rose Park Drive, Toronto, Ont. |
| Stilwell, Luther Hamilton | Dent. 2 | 48 St. Matthew St., Montreal, Que. |
| Stock, Gerald H | Med. 5 (Final) | 448 Cooper St., Ottawa, Ont. |
| Stockhausen, Joseph Methuen | Med. 3 | Duncan, Jamaica, B.W.I. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Stocking, Mary Frances S | Arts 2 (Hon.) | 136 St. Anne St., Quebec, Que. |
| Stockwell, Henry P | Ap. Sci. 4. (Chem.) | Stanstead, Que. |
| Stone, Albert Rendle | Arts 4 (Hon.) | 151 Bingnam Ave., Toronto, Ont. |
| Stone, C. H. (Cancelled November 8th, 1924) | Arts 1 | Bellevue, Nfld. |
| Stone, William John | Phy. Ed. P., Arts P | 171 Eastern Ave., Toronto, Ont. |
| Strachan, Lionel A. W. P | Ap. Sci. 1 | 118 Brewster Ave., Montreal, Que. |
| Strapp, Gerald A | Med. 4 | Harbour Grace, Nfld. |
| Stromberg, Rose | Arts 2 | 275 De L'Epée Ave., Outremont, Que. |
| Stuart, Hugh Alexander | Med. 2 | 169 Park St., Sydney, N.S. |
| Stuart, Kenneth E. W | Arts 1 | 480 Guy St., Montreal, Que. |
| Sturman, Pasco | Phar | 578 Centre St., Montreal, Que. |
| Sugden, George William | Dent. 2 | Cornwall, Ont. |
| Sullivan, Joseph Kenneth | Med. 5 | Alexandra St., St. John, N.B. |
| Sullivan, William Cuthbert | Dent. 2 | Williamstown, Ont. |
| Summers, Carman Wellington | Arts 2 | 18 Stewart St., Ottawa, Ont. |
| Sutherland, George Fraser | Med. 2 | 1213 Barclay St., Vancouver, B.C. |
| Sutton, Joseph Carl | Med. 2 | Little Pabos, Co. Gaspe, Que. |
| Swartz, Harry Martin | Com. 1 | 4474 St. Catherine St. W., Montreal, Que. |
| Sweet, Arthur Henry | Med. 5 (Final) | Thornhill, Man. |
| Sweny, George William | Ap. Sci. 4. (Met.) | Victoria B.C., R.M.D. No. 4. |
| Swetnam, William Stanley | Dent. 4 | 49 Weldon St., Moncton, N.B. |
| Swift, Earle Leopold | Arts 2 (Hon.) | St. Johns, Antigua, B.W.I. |
| Sykes, William Charles | Ap. Sci. 1 | 1758 Bordeaux St., Montreal, Que. |
| Symons, Jennie Laura | Grad. Sch | Waterloo, Que. |
| Tabb, Walter Horatio | Phar | 168 Nicolet St., Montreal, Que. |
| Tait, Robert Miller | Med. 5 (Final) | 11542-92nd St., Edmonton, Alta. |
| Talbot, William Edward | Arts 2 | Hamilton, Bermuda. |
| Talpis, Veeta Helen | Arts 2 | 50 Arlington Ave., Westmount, Que. |
| Tanenbaum, Hyman Bernard | Phar | 508 Colonial Ave., Montreal, Que. |
| Tannenbaum, Ida B (Cancelled Nov. 21st, 1923) | Arts 1 | 661 Querbes Ave., Outremont, Que. |
| Tanzman, Joseph | Med. 3 | 22 Clarence St., St. John, N.B. |
| Tarshis, Anne | Med. 5 (Final) | 187 Bloomfield Ave., Outremont, Que. |
| Tatleman, Maurice | Med. 2 | 2108 St. Urbain St., Montreal, Que. |
| Tatlow, Helen Garnett | Phy. Ed. 1 | 3689 Cartier Ave., Vancouver, B.C. |
| Tatley, Herbert Baptist | Ap. Sci. 2 | 45 Durocher St., Montreal, Que. |
| Taylor, Frank Denzil | Ap. Sci. 1 | Golden Ridge, St. George, Barbados. |
| Taylor, John Albert | Ap. Sci. 4 (Chem.) | 181 Oxford St., Halifax, N.S. |
| Taylor, John Alexander | Arts 2 (B.Sc.) (Hon.) | c/o The Diamond, Lifford, Co., Donegal, Ireland. |
| Taylor, John Neil | Med. 3 | Almonte, Ont. |
| Taylor, St. Elmo E | Med. 4 | 87 Lexington Ave., Brooklyn, N.Y. |
| Taylor, Willard Davidson | Ap. Sci. 3 (El.) | 14 McDougall Ave., Ottawa, Ont. |
| Taylor, William Graeme | Arts 1 | 107 Cote St. Antoine Road, Westmount, Que. |
| Teakle, Cecil Thomas | Arts 4 | 4063 Dorchester St. W., Westmount, Que. |
| Teakle, Harold Percival | Arts 2 (B. Sc.) | 4063 Dorchester St. W., Westmount, Que. |
| Teggart, Dorothy May Lee | Med. 4 | 125 Bayle St., Montreal, Que. |
| Teitelbaum, Michael Henry | Med. 5 (Final) | 90 Laurier Ave. W., Montreal, Que. |
| Tennant, Ralpn Cowan | Arts 2 (Hon.) | 156 Easton Ave., Montreal West, Que. |
| Terroux, F. Richard | Arts 3 (B.Sc., Hon.) | 129 Crescent St., Montreal, Que. |
| Terry, Kingsley | Med. 5 (Final) | 1220 St. James St., Oak Bay, Victoria, B.C. |
| Tessier, Marcel (Cancelled October 1923) | Dent. 1 | Rachel St. E., Montreal, Que. |
| Thaw, Daniel | Med. 3 | 315 St. Dominique St., Montreal, Que. |
| Theed, H. Selbourne | Arts P | Frankford, Ont. |
| Theobalds, Thomas Reynolds | Ap. Sci. 1 | Rose Hill, Castries, St. Lucia, B.W.I. |
| Thériault, Omer Philip | App. Sci. 2 | 770 Cadieux St., Montreal, Que. |
| Thomas, Alum C | Ap. Sci. 1 | 566 Michigan St., Victoria, B.C. |
| Thomas, William John | Com. 2 | 1076 Delormier Ave., Montreal, Que. |
| Thompson, Clifford Shaw | Med. 5 | North Sydney, N.S. |
| Thompson, Doris | Phy. Ed. 2 | 492 Grosvenor Ave., Westmount, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Thompson, Ethel Burnett | Phy. Ed. 1 | 2516 Jeanne Mance St., Montreal, Que. |
| Thompson, Frank Blashford | App. Sci. 3 (Ci.) | 127 Drummond St., Montreal, Que. |
| Thompson, Frederick Clarence | Dent. 2 | 157 Frank St., Ottawa, Ont. |
| Thompson, Jack Evans | Com. 1 | 492 Grosvenor Ave., Westmount, Que. |
| Thompson, Robert Campbell | Dent. 1 | 318 Hampton Ave., Montreal, Que. |
| Thompson, William | Arts P | 2658 Hutchison St., Montreal, Que. |
| Thomson, Helena Barbara | Arts 4 (Hon.) | 5229 Sherbrooke St., W., Montreal, Que. |
| Thomson, Walter Wilfred | Grad. Sch | Apt. 4, 1267 Bernard Ave., Outremont, Que. |
| Thorburn, Norman Alexander | Arts 1 | 2591 Waverly St., Montreal, Que. |
| Thurber, Donald Stuart | Med. 5 | Millerton, N.B. |
| Tidmarsh, Clarence Johnson | Med. 5 (Final) | Charlottetown, P.E.I. |
| Timmins, Leo Henry | Ap. Sci. 4 (Mi.) | 99 Gordon Crescent, Westmount, Que. |
| Tinkess, Donald Ewing | Med. 5 | 621 Sherman St., Watertown, N.Y. |
| Tinney, Benjamin Franklin | Grad. Sch | Charlottetown, P.E.I. |
| Toker, Maxwell H | Dent. 4 | 1570 Esplanade Ave., Montreal, Que. |
| Tombs, Laurence Chalmers | Arts 4 (Hon.) | 503 Mt. Pleasant Ave., Westmount, Que. |
| Toplitsky, Jack | Dent. 4 | 66a Laurier Ave. W., Montreal, Que. |
| Tourgis, Phyllis Matheson | Pny. Ed. 2 | 2557 Park Ave., Montreal, Que. |
| Touzel, Eugene Stuart | Med. 2 | Renfrew, Ont. |
| Towne, Alfred John | Dent. 3 | 2077 Cameron St., Regina, Sask. |
| Trenholme, George Henry | Ap. Sci. 4 (Me.) | 601 Clarke Ave., Westmount, Que. |
| Trites, Albert Edward | Med. 5 (Final) | Salisbury, N.B. |
| Trott, Harold Williams | Med. 5 (Final) | Mt. Brydges, Ont. |
| Trueman, James Cobden | Grad. Sch | 1 Luxton Ave., Winnipeg, Man. |
| Tucker, Michael Lovitt | Ap. Sci. 1 | 1523 Wood Ave., Colorado Springs, Colorado, U.S.A. |
| Tudor, John Beresford (Cancelled January 1924) | Com. 1 | 111 St. Matthew St., Montreal, Que. |
| Turley, Regina Mary | Arts 2 | Frankford, Ont. |
| Turner, Alice Willard | Arts 1 | 79 Columbia Ave., Westmount, Que. |
| Turpel, William Nicholson | Med. 5 | 2551 Quadra St., Victoria, B.C. |
| Tyrrell, Walter Kenneth | Phar. | 15 Plateau St., Montreal, Que. |
| Upton, Ethel Frances | Grad. Nurses | 4332 St. Catherine St. W., Westmount, Que. |
| Upton, Harols S. | Ap. Sci. 2 | 45 Windsor Ave., Westmount, Que. |
| Urquhart, Robert Glen | Med. 5 (Final) | 889 St. Urbain St., Montreal, Que. |
| Usher, Abraham | Com. 3 | 382 Metcalfe Ave., Westmount, Que. |
| Usher, Peter (Cancelled October 1923) | Law 3 | 1509 Jeanne Mance St., Montreal, Que. |
| Valentine, Hugh Allen Ingles | Ap. Sci. 1 (Arch.) | 375 Ninth Ave., Rosemount, Que. |
| Vallières, Joseph Léon | Med. 5 | 57 Centre St., Biddeford, Me. |
| Vanterpool, Thomas Clifford | Grad. Sch | Walmer Lodge, St. Michael, Barbados, B.W.I. |
| Van Vliet, George Lyman | Law 1 (B.C.L.) | Lacolle, Que. |
| Van Wagner, Floyd Marcellus | Arts P | Hyde Park-on-Hudson, N.Y. |
| Vaz, Clarence | Med. 3 | Kingston, Jamaica, B.W.I. |
| Vega, Clemente Daniel (Cancelled January, 1924) | Ap. Sci. 1 | 1012 St. James St., Montreal, Que. |
| Vernot, George Edward | Ap. Sci. 3 (Ci.) | 293 St. George St., Montreal, Que. |
| Vickerson, George Locker | Ap. Sci. 3 (Ci.) | 277 Regent Ave., Montreal, Que. |
| Villard, Paul | Com. 1 | 17 Vendome Ave., Montreal, Que. |
| Vineberg, Arthur Martin (Course B.Sc., M.D.) | Med. 2, Arts 4 | 324 Elm Ave., Westmount, Que. |
| Vineberg, Evelyn Fannie | Arts P | 324 Elm Ave., Westmount, Que. |
| Vineberg, Norman Max | Med. 5 (Final) | 1518 Jeanne Mance St., Montreal, Que. |
| Vineberg, Stanley Alyin | Com. 1 | 324 Elm Ave., Westmount, Que. |
| Voisard, Amaisry Charles | Dent. 1 | 112 St. Joseph Blvd., Montreal, Que. |
| Voisard, Juliette T. | Arts 2 (Hon.) | 112 St. Joseph Blvd., Montreal, Que. |
| Volpé, Edythe May (Cancelled February, 1924) | Arts P | 226 Villeneuve Ave., W. Apt. 8, Montreal, Que. |
| Wade, Jean Muriel | Grad. Nurses | Bedford, Halifax Co., N.S. |
| Wade, Robert S. | Med. 5 | Renfrew, Ont. |
| Wadsworth, Gordon Campbell | Grad. Sch | 345 Harvard Ave., Montreal, Que. |
| Wainer, Isidore Joseph | Arts 4 (Hon.) | 1113 St. Dominique St., Montreal, Que. |
| Wait, Philip Aylmer | Com. 2 | 169 Clemow Ave., Ottawa, Ont. |
| Walker, Arthur Judson | Med. 5 (Final) | 88 Spring Garden Road, Halifax, N.S. |
| Walker, Douglas William | Med. 5 (Final) | 6150 Sherbrooke St. W., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Walker, Eric T (Cancelled January, 1924) | Ap. Sci. 1 | 6150 Sherbrooke St. W., Montreal, Que. |
| Walker, Phyllis Constance | Arts P | 27 MacGregor St., Montreal, Que. |
| Walker, William Henry (Cancelled February, 1924) | Dent. 1 | Chatham, N.Y. |
| Wall, Bernard William | Arts 2 (B.Sc.) | 1762 Jeanne Mance St., Montreal, Que. |
| Wall, John J | Med. 4 | 222 Florence St., Ottawa, Ont. |
| Wallace, Arthur William | Ap. Sci. 3 (Arch.) | Bank of Montreal, Halifax, N.S. |
| Walsh, Desmond (Cancelled January, 1924) | Com. 1 | 43 Trafalgar Ave., Montreal, Que. |
| Walsh, Gerald J (Cancelled January, 1924) | Arts 1 (B.Sc.) | 754 Hartland Ave., Montreal, Que. |
| Walsh, Muriel Helena | Arts P | 754 Hartland Ave., Montreal, Que. |
| Walsh, Ronald Joseph | Med. 5 | 408 Park St., Sydney, N.S. |
| Walter, Albert Joshua Petrie | Ap. Sci. 3 (Mi.) | |
| Walter, Felix Harold | Grad. Sch. | 635 University St., Montreal, Que. |
| Walter, Albert Robert | Med. 3 | P.O. Box 271, Lennoxville, Que. |
| Ward, Clifford Vincent | Med. 4 | Waterville, Que. |
| Ward, Peter Douglas | Med. 5 (Final) | 186 Park Ave., Montreal, Que. |
| Ward, Richard Vance | Med. 5 (Final) | 662 Champagneur Ave., Outremont, Que. |
| Ward, Ruth | Arts 2. (B.Sc.) | 446 Durocher St., Outremont, Que. |
| Wardleworth, Theophilus H | Ap. Sci. 3 (Ci.) | 168 Cote St. Antoine Rd., Westmount, Que. |
| Wardwell, Elizabeth D (Cancelled January, 1924) | Arts 1 | 102 Closse St., Montreal, Que. |
| Ware, Grace | Phy. Ed. 2 | 1742 "S" St., N.W., Washington, D.C. |
| Warnock, William James | Ap. Sci. 1 | 2132 Belmont Ave., Victoria, B.C. |
| Warren, Catherine Louise | Arts 1 | 4 Tower Ave., Montreal, Que. |
| Warren, Francis Bishop | Ap. Sci. 4 (Ci.) | Toronto, Ont. |
| Warren, Geoffrey Macdougal | Ap. Sci. 3 (Mi.) | Penticton, B.C. |
| Warren, James Frederic (Cancelled January, 1924) | Ap. Sci. 1 | Penticton, B.C. |
| Warren, William Adelbert | Ap. Sci. 4 (El.) | 8-11th Ave., Lachine, Que. |
| Watson, David Scott | Dent. 2 | 564 Champagneur Ave., Montreal, Que. |
| Watson, Edmond Evelyn | Arts 3 (B.Sc. Hon.) | New Yarmouth Race Course P.O., Jamaica, B.W.I. |
| Watson, William | Ap. Sci. 4 (El.) | 84 Springdale St., St. John's, Nfld. |
| Watson, Walter John Hubert | Phar. | 420 Hampton Ave., Montreal, Que. |
| Warson, William Stanley | Arts P | 2461 Hutchison St., Montreal, Que. |
| Watt, Ruth Eileen | Phy. Ed. 1 | 4342 Westmount Ave., Westmount, Que. |
| Weames, Albert James | Ap. Sci. 2 | 566 Maitland St., London, Ont. |
| Webb, Anne Muriel | Arts P | 118 Arlington Ave., Westmount, Que. |
| Webb, Frederick Thomas | Com. 2 | 336 Liverpool St., Montreal, Que. |
| Weber, Jack | Arts 1 | 750 City Hall Ave., Montreal, Que. |
| Webster, Bruce Peck | Med. 5 | Lansdowne, Ont. |
| Webster, Colin Wesley | Arts 4 (Hon.) | 7 Edgehill Road, Westmount, Que. |
| Webster, James Stewart | Ap. Sci. 2 | 96 Fourth Ave., Ottawa, Ont. |
| Webster, Leith Hillman | Med. 5 (Final) | Marie, P.E.I. |
| Webster, Lindsay Percival | Com. 2 | 84 Lorne Ave., St. Lambert, Que. |
| Wechsler, Jacob Jackson | Med. 5 | Chicago, Ill. |
| Weiman, Maurice | Med. 2 | 569 Laval Ave., Montreal, Que. |
| Weinman, Nathan | Arts P | 718 Colonial Ave., Montreal, Que. |
| Weinrauch, Joseph Gerald | Phar. | 321 Querbes Ave., Outremont, Que. |
| Weintraub, David | Arts 1 | 6 Orr Square, Revere, Mass. |
| Weir, Ronald Stanley | Ap. Sci. 2 | 756 Sherbrooke St. W., Montreal, Que. |
| Weisberg, Hyman Maurice | Med. 2 | 1227 St. Lawrence Blvd., Montreal, Que. |
| Weisburgh, Casper | Ap. Sci. 4 (El.) | 1063 St. Urbain St., Montreal, Que. |
| Wells, Hubert | Law 1 (L.L.B.) | Alburg, Vt., U.S.A. |
| Wener, William Victor | Med. 3 | 1127 Clarke St., Montreal, Que. |
| Wert, Ford Bush | Med. 5 (Final) | Avonmore, Ont. |
| West, William George | Arts 1 (B.Sc.) | 766 Delormier Ave., Montreal, Que. |
| Wevrick, Noah (Course B.Sc., M.D.) | Arts 4, Med. 2 | 489a Henry Julien St., Montreal, Que. |
| Wevrick, Solomon Feldman | Arts 4 (Hon.) | 489a Henri Julien St., Montreal, Que. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Whalen, Harold J. (Cancelled October, 1923) | Dent. 1 | Tamworth, Ont. |
| Wheatley, Rupert Adams | Dent. 2 | 657 Belmont Ave., Westmount, Que. |
| Whelen, Peter Graeme | Com. 1 | 260 Somerset St. W., Ottawa, Ont. |
| White, George Milburn | Med. 1 (Final) | Marysville, N.B. |
| White, Alec. Francis. (Cancelled October, 1923) | Ap. Sci. 4 (El.) | |
| White, Thomas Nash | Arts 2, (B.Sc., Hon.) | 100 Easton Ave., Montreal West, Que. |
| Whitehead, Wallace Irwin | Arts 1 | 287 Clifton Ave., Montreal, Que. |
| Whiteley, Bessie Balfour | Arts P | 247 Melville Ave., Westmount, Que. |
| Whiting, Richard Charles | Med. 5 (Final) | 51 Robinson St., Hamilton, Ont. |
| Whitman, Clyde Oliver | Arts P | New Albany, Annapolis Co., N.S. |
| Whittemore, Carl Raymond | Grad. Sch | Trail, B.C. |
| Wickham, Paul | Law 2. (B.C.L.) | 408 Victoria Ave., St. Lambert, Que. |
| Wickwire, James Leander | Ap. Sci. 4 (Ci.) | Kentville, N.S. |
| Wiggins, Reginald Heber | Med. 5 (Final) | Sackville, N.B. |
| Wight, Evelyn Murray | Arts 1 | Woodlands, Que. |
| Wight, G. Earle | Med. 5 | 465 Moreau St., Montreal, Que. |
| Wilanski, Kate | Arts P | 1621 Hutchison St., Montreal, Que. |
| Wilcock, George Francis | Arts 1 (B.Sc.) | 28-36th Ave., Lachine, Que. |
| Wilkes, J. F. Ransom (Cancelled December, 1923) | Law 3 | Hynneham, Brantford, Ont. |
| Willard, Eugene Wallace | Grad. Sch | Montmorency Falls, Que. |
| Williams, Alun Rowland | Com. 2 | "Bishopstowe," London, Ont. |
| Williams, Frances Eileen | Arts 2 (Hon.) | 185 German St., St. John, N.B. |
| Williams, F. N. (Cancelled November, 1923) | Com. 2 | Ormstown, Que. |
| Williams, Gertrude (Cancelled October, 1923) | Soc. Workers | 147 St. Joseph Blvd. W., Montreal, Que. |
| Willliams, Harold Miles | Ap. Sci. 2 | 300 Prince Arthur St. W., Montreal, Que. |
| Williams, John Basil | Arts P | 95 Arlington Ave., Westmount, Que. |
| Williams, R. Lyman | Arts 2 | 44 Trafalgar Ave., Montreal, Que. |
| Williams, Sydney Waldron | Ap. Sci. 4 (Chem.), Arts P, Com. P | 69 Esplanade Ave., Quebec, Que. |
| Williamson, Ruth Alexandra | Arts 1 | 4020 Dorchester St. W., Montreal, Que. |
| Wilson, Blake Manning | Com. 3 | 1238 Tecumseh Ave., Vancouver, B.C. |
| Wilson, Evelyn C. E. | Arts 2 (Hon.) | 450 Grosvenor Ave., Westmount, Que. |
| Wilson, Dudley Bazin | Arts 3 (Hon.) | 320 Northcliffe Ave., Montreal, Que. |
| Wilson, Eleanor Jenckes | Phy. Ed. P | 1465 Bernard Ave., Outremont, Que. |
| Wilson, Frances Margaret | Arts P | 126 Clandeboye Ave., Westmount, Que. |
| Wilson, George Andrew | Med. 5 (Final) | R.R. No. 2, Kars, Ont. |
| Wilson, Gilbert | Ap. Sci. 3 (Mi.) | Elmhurst, Kendal, Eng. |
| Wilson, Harold Stockdale | Ap. Sci. 4 (Mi.) | Indian Head, Sask. |
| Wilson, Horace Orvil | Med. 5 (Final) | 9917-85th Ave., Edmonton S., Alta. |
| Wilson, Milton Clayton | Med. 3 | 701 Baker St., Baltimore, Md. |
| Wilson, Percy Roy | Ap. Sci. 5. (Arch.) | Cedarhurst, Sault Ste. Marie, Ont. |
| Wilson, Ross | Com. 3 | 608 St. Charles St., Victoria, B.C. |
| Wilson, Richard Biggerstaff | Com. 3 | 1770 Rockland Ave., Victoria, B.C. |
| Wilson, William H | Law 1 (B.C.L.) | 150 Drummond St., Montreal, Que. |
| Wilson, Valentine W. G | Ap. Sci. 2 | 756 University St., Montreal, Que. |
| Wilson, William Robert | Arts 4 | Athelstan, Que. |
| Windsor, Frank | Com. 3 | 389 Clarke Ave., Westmount, Que. |
| Winter, Francis Edward | Ap. Sci. 2 | 4684 Westmount Ave., Westmount, Que. |
| Winter, Jacob | Med. 4 | 1900 Hutchison St., Montreal, Que. |
| Wise, Alfred John | Ap. Sci. 1. (Arch.) | 6686 Third Ave., Rosemount, Que. |
| Wiseberg, Max | Med. 1 | 788 St. Dominique St., Montreal, Que. |
| Wiselberg, Dorothy | Arts 2 | 3 Holton Ave., Westmount, Que. |
| Wisse, William Horatius | Med. 2 | 1485 St. Lawrence Blvd., Montreal, Que. |
| Witmer, Earl Robert W | Com. 2 | 32 Palmerston Ave., Brantford, Ont. |
| Wittenberg, Arthur Abraham | Med. 4 | 1512 Ontario St. E., Montreal, Que. |
| Wolepor, Benjamin | Med. 5 | 68-Seventh Ave., Lachine, Que. |
| Wolf, Israel J | Med. 2 | 2 Park Road, Paterson, N.J. |

| NAME | FACULTY AND YEAR | HOME ADDRESS |
|---|---|---|
| Wolfson, Charles | Arts P | 3156 St. Lawrence Blvd., Montreal, Que. |
| Wolofsky, Max (Course B.A., M.D.) | Med. 1, Arts 3 | 91 Esplanade Ave., Montreal, Que. |
| Woloshen, William W (Cancelled January, 1924) | Arts 1 | 1033 St. Urbain St., Montreal, Que. |
| Wood, James | Ap. Sci. 3 (Me.) | 764 Transet Road, Oak Bay, Victoria, B.C. |
| Wood, Ralph Peirce | Med. 4 | 380 Main St., Everett, Mass., U.S.A. |
| Wood, Robert | Ap. Sci. 4 (El.) | 260 Regent Ave., Montreal, Que. |
| Wood-Legh, Kathleen Louise | Grad. Sch | 237 Decarie Blvd., Montreal, Que. |
| Woodruff, Richard S | Med. 3 | 19 Bartlett Ave., Pittsfield, Mass., U.S.A. |
| Woods, Frederick Lattimore | Arts 1 | Port Colborne, Ont. |
| Woolfrey, Wilfred J | Arts P | Wesleyan College, Montreal, Que. |
| Woolcombe, George Andrew | Com. 2 | Rockliffe Park, Ottawa, Ont. |
| Woolley, Lawrence Grange | Arts 1 | 349 Melrose Ave., Montreal, Que. |
| Workman, Ephraim | Med. 3 | 10 Stanley St., Montreal, Que. |
| Worrall, Alice | Arts 3 (Hon.) | 147 Agnes St., St. Henry, Que. |
| Wright, James Gibson | Ap. Sci. 1 | 415 Victoria Ave., Westmount, Que. |
| Wright, John Andrew | Med. 2 | 565 W. 185th St., New York, N.Y. |
| Wylie, Robert Harold | Arts 3 | Hallville, Ont. |
| Wynn, John Murray | Com. 1 | 121 Brock Ave., Montreal West, Que. |
| Wyse, James Wilson | Ap. Sci. 4 (Ci.) | 73 Highfield St., Moncton, N.B. |
| Yaphe, Eli Lewis | Arts 1 | 541 Wilson Ave., Montreal, Que. |
| Yaphe, Jeannette | Arts P | 394 Addington Ave., Montreal, Que. |
| Yeates, Gertrude L. (Cancelled October, 1924) | Grad. Nurses | |
| Yerxa, Alfred Cliff | Com. 2 | 324 Northumberland St., Fredericton, N.B. |
| Yisudas, Benjamin Oswald | Arts P | Claxton Bay, Trinidad, B.W.I. |
| York, Geoffrey Wilson B. | Med. 4 | 112 Strathcona Ave., Ottawa, Ont. |
| Young, Charles Hurlburt | Arts 1 | North Sydney, N.S. |
| Young, Janet A. M | Arts 1 | 19 Hutchison St., Montreal, Que. |
| Young, John Melvin | Ap. Sci. 2 | 1162 Lajoie St., Montreal, Que. |
| Yorston, Frederic Harrison | Grad. Sch | 2094 Park Ave., Montreal, Que. |
| Yuile, Charles Laing | Arts 1 | 70 Ontario Ave., Montreal, Que. |
| Yuile, William Sclater | Ap. Sci. 1 | 70 Ontario Ave., Montreal, Que. |
| Zaltsman, Eva | Arts 2 (Hon.) | 236 Colonial Ave., Montreal, Que. |
| Zappa, Joseph Armand | Law 2 (B.C.L.) | 294 Nicolet St., Montreal, Que. |
| Zaritsky, Alexander | Med. 1 | Ste. Sophie, County Terrebonne, Que |
| Ziff, Edythe Ritta | Phy. Ed. 1 | 360 Villeneuve Ave., Montreal, Que. |
| Zimand, Charles James | Arts 1 | 183 Esplanade Ave., Montreal, Que. |
| Zinck, Russell Clark | Med. 5 (Final) | Chester, N.S. |
| Zuckerman, Joshua | Med. 5 | 133 Rachel St., Montreal, Que. |

# STUDENTS IN ATTENDANCE

SESSION 1923-24

| | | | |
|---|---|---|---|
| **ARTS** | | | |
| First Year—Men | 194 | ... | ... |
| Women | ... | 88 | 282 |
| Second Year—Men | 89 | ... | ... |
| Women | ... | 50 | 139 |
| Third Year—Men | 55 | ... | ... |
| Women | ... | 47 | 102 |
| Fourth Year—Men | 41 | ... | ... |
| Women | ... | 35 | 76 |
| Partials —Men | 58 | ... | ... |
| Women | ... | 62 | 120 |
| Total —Men | 437 | | |
| Women | | 282 | |
| Total Arts | | | 719 |
| **COMMERCE** | | | |
| First Year—Men | 75 | ... | ... |
| Women | ... | 7 | 82 |
| Second Year—Men | 63 | ... | ... |
| Women | ... | 2 | 65 |
| Third Year—Men | 41 | ... | ... |
| Women | ... | 2 | 43 |
| Partials —Men | 15 | ... | ... |
| Women | ... | 0 | 15 |
| Total —Men | 194 | | |
| Women | | 11 | |
| Total Commerce | | | 205 |
| **APPLIED SCIENCE** | | | |
| First Year | | | 129 |
| Second Year | ... | ... | 99 |
| Third Year | ... | ... | 103 |
| Fourth Year | ... | ... | 129 |
| Fifth Year (Arch.) | ... | ... | 5 |
| Total Applied Science | ... | ... | 465 |
| **MEDICINE** | | | |
| First Year—Men | 48 | ... | ... |
| Women | ... | 2 | 50 |
| Second Year—Men | 106 | ... | ... |
| Women | ... | 3 | 109 |
| Third Year—Men | 126 | ... | ... |
| Women | ... | 3 | 129 |
| Fourth Year—Men | 91 | ... | ... |
| Women | ... | 4 | 95 |
| Fifth Year—Men | 267 | ... | ... |
| Women | ... | 2 | 269 |
| Total Men | 638 | ... | ... |
| Total Women | ... | 14 | ... |
| Total Medicine | ... | ... | 652 |
| **GRADUATE SCHOOL** | | | |
| Men | 97 | ... | ... |
| Women | ... | 13 | 110 |
| Total Graduate School | ... | ... | 110 |

| | | | |
|---|---|---|---|
| **GRADUATE NURSES** | | | |
| Total | ... | ... | 48 |
| **DENTISTRY** | | | |
| First Year—Men | 33 | ... | 33 |
| Second Year—Men | 32 | ... | ... |
| Women | ... | 1 | 33 |
| Third Year | 46 | ... | 46 |
| Fourth Year | 21 | ... | 21 |
| Total —Men | 132 | ... | ... |
| Women | ... | 1 | ... |
| Total Dentistry | ... | ... | 133 |
| **LAW** | | | |
| First Year | 31 | ... | 31 |
| Second Year | 14 | ... | 14 |
| Third Year—Men | 27 | ... | ... |
| Women | ... | 1 | 28 |
| Partials —Men | 2 | ... | ... |
| Women | ... | 1 | 3 |
| Total — Men | 74 | ... | ... |
| Women | ... | 2 | ... |
| Total Law | ... | ... | 76 |
| **PHARMACY** | | | |
| Men | 51 | ... | ... |
| Women | ... | 1 | 52 |
| Total Pharmacy | ... | ... | 52 |
| **SOCIAL WORKERS** | | | |
| Total | ... | ... | 26 |
| **PHYSICAL EDUCATION** | | | |
| First Year | ... | 28 | 28 |
| Second Year | ... | 26 | 26 |
| Partials —Men | 2 | ... | ... |
| Women | ... | 2 | 4 |
| Total —Men | 2 | ... | ... |
| Women | ... | 56 | ... |
| Total Physical Education | ... | ... | 58 |
| **MUSIC** | | | |
| Regular Students—Men | 3 | ... | ... |
| Women | .. | 14 | 17 |
| Senior Partials —Men | 12 | ... | ... |
| Women | ... | 56 | 68 |
| Total —Men | 15 | ... | ... |
| Women | ... | 70 | ... |
| Total Music | ... | ... | 85 |
| **SCHOOL OF AGRICULTURE** | | | |
| First Year | | | 5 |
| Second Year | | | 12 |
| Third Year | | | 15 |
| Fourth Year | | | 7 |
| Partials | | | 27 |
| Total Agriculture | | | 66 |

SCHOOL OF HOUSEHOLD SCIENCE

| | | |
|---|---|---|
| First Year | 45 | |
| Second Year | 15 | |
| Third Year | 6 | |
| Fourth Year | 4 | |
| Partials | 14 | |
| Total Household Science | 84 | |
| Total—Men | 2171 | |
| Women | 608 | |
| Grand Total | | 2779 |

# UNDERGRADUATE AND GRADUATE SOCIETIES.

No Club or Society which has not been approved by the Corporation is entitled to use the name of the University, or of the Royal Victoria College. Applications for such approval, accompanied by a copy of the constitution, should be addressed to the Registrar.

## The Students' Council of McGill University.

OFFICERS 1924-25.

*President*—B. C. MACLEAN.
*Secretary-Treas.*—G. H. FLETCHER.

*Executive Council.*

G. NAIRN, Representative from Arts.
S. PIERCE, Representative from Law.
S. COPE, Representative from Science.
R. DELAHAY, Representative from Medicine.
H. MUNRO, Representative from Dentistry.
T. F. NEWTON, President McGill Union.
S. READ, President "McGill Daily."

## The McGill Union.

OFFICERS 1924-25.

*President*—T. F. M. NEWTON.
*Vice-President*—N. W. PHILPOT.
*Secretary*—JACK WRIGHT.
*Treasurer*—G. H. FLETCHER.

## "MGill Daily."

OFFICERS 1924-25.

*President*—S. M. E. READ.
*Editor-in-Chief*—H. MACMILLAN.
*Managing Editor*—T. F. M. NEWTON.
*Sec.-Treas., Adv. Mgr.*—G. H. FLETCHER.

## Undergraduates' Literary and Debating Society.

OFFICERS 1924-25.

*I. U. D. L. Rep.*—A. N. JONES.
*President*—H. WILLS.
*Vice-President*—E. A. FORSEY.
*Secretary*—A. O. LLOYD.
*Treasurer*—B. COHEN.

## Arts Undergraduates' Society.

OFFICERS 1924-25.

*President*—ROBERT V. FORTUNE.
*Vice-President*—WILLIAM SHEPHERD.
*Treasurer*—H. D. MCPHAIL.
*Secretary*—JOHN DUCKWORTH.

## R. V. C. Undergraduates' Society.

OFFICERS 1924-25.

*President*—JEAN M. GURD, '25.
*Vice-President*—FRANCES STOCKING '26.
*Secretary-Treasurer*—ISABEL SCRIVER '27.

## Undergraduates' Society in Law.

OFFICERS 1924-25.

*President*—FRANK B. CHAUVIN.
*Vice-President*—FRED. T. COLLINS.
*Secretary*—CHAS. T. BALLANTYNE.
*Treasurer*—MARCEL GABOURY.

## Medical Undergraduates' Society.

OFFICERS 1924-25.

*Hon. President*—DR. F. H. MACKAY.
*Hon. Councillors*—DR. I. M. THOMPSON. DR. A. H. GORDON.
*President*—J. G. SENECAL.
*Vice-President*—W. S. BUTLER.
*Treasurer*—K. S. MACLEAN.
*Secretary*—G. H. GRASSICK.
*Asst. Secretary*—H. A. STEWART.
*Case Reporter*—N. P. HILL.
*Councillor*—E. A. MACNAUGHTON.

### Chemical Society.

OFFICERS 1924-25.

*President*—P. G. HIEBERT, M.Sc.
*Vice-President*—PROF. N. N. EVANS.
*Secretary*—P. LAROSE, M.Sc.
*Treasurer*—G. W. HOLDEN, B.A.

### Mining and Metallurgical Society.

OFFICERS 1924-25.

*Honorary Presidents*—DR. J. B. PORTER; DR. A. STANSFIELD.
*President*—A. K. MUIR.
*Vice-Presidents*—C. H. GORDON; G. W. SWENY.
*Secretary-Treasurer*—C. H. F. COTTEE.

### Physical Society.

OFFICERS 1924-25.

*President*—DR. D. A. KEYS.
*Vice-President*—DR. E. S. BIELER.
*Secretary*—MR. M. HOME.
*Committee*—DR. H. T. BARNES; DR. G. S. WHITBY.

### Commercial Society.

OFFICERS 1924-25.

*President*—T. F. MITCHELL.
*Vice-President*—E. R. HANNA.
*Secretary*—J. G. GLASSCO.
*Treasurer*—L. E. BAKER.

### Historical Club.

OFFICERS 1924-25.

*Patron*—SIR ARTHUR W. CURRIE.
*Hon. President*—PROF. BASIL WILLIAMS.
*Hon. Vice-President*—PROF. W. T. WAUGH.
*President*—L. C. TOMBS.
*Vice-President*—G. T. LAFLEUR.
*Treasurer*—L. SESSENWEIN.
*Secretary*—A. R. STONE.

## Electrical Club.

OFFICERS 1924-25.

*Hon. President*—PROF. C. V. CHRISTIE.
*Hon. Vice-President*—MR. WALLACE.
*President*—ROBERT WOOD.
*Secretary*—W. M. PRUDHAM.
*Treasurer*—J. M. SHARPE.
*Councillors*—E. G. MCCRACKEN. R. M. RICHARDSON. A. O. LESLIE. D. C. BORDEN. M. P. MALONE.

## Architectural Society.

OFFICERS 1924-25.

*President*—F. CONSIGLIO.
*Vice-President*—H. D. ROBERTSON.
*Secretary*—A. K. MILLS.
*Treasurer*—E. A. GARDNER.
*Representative*—E. L. BOUILLON.

## Cercle Française.

OFFICERS 1924-25.

*Hon. President*—PROF. R. DU ROURE.
*President*—M. GABOURY.
*Vice-President*—D. B. WILSON.
*Secretary*—F. MILLINGTON.
*Treasurer*—G. LAFLEUR.

## Société Française.

OFFICERS 1924-25.

*Hon. President*—MRS. TOUREN-FURNESS.
*President*—LUCIENNE DESBARATS.
*Vice-President*—GRACE HART.
*Secretary-Treasurer*—BEATRICE LYMAN.
*Representatives*—Fourth Year, JEAN AFFLECK; Third Year, OLIVE PARKER; Second Year, M. MACSPORRAN.

## McGill Chapter of the Society of the Sigma XI.

As stated in the Constitution, the Society of the Sigma Xi, or "Companions in Zealous Research," has for its object the encouragement of original investigation in pure and applied science, by means of meetings, discussions, publications, the establishment of fraternal relations among investigators, and by granting the privilege of membership to such students as have, during their college courses, given special promise of future achievement.

The McGill Chapter of this Society was granted its charter on the 28th of December, 1921, and since that time has held regular meetings.

OFFICERS 1924-25.

*President*—DR. JOHN BONSALL PORTER.

*Vice-Presidents* { DR. R. F. RUTTAN. / DR. C. F. MARTIN.

*Secretary-Treasurer*—PROF. NEVIL NORTON EVANS.

*Executive Committee*—The above-named Officers and PROF. F. E. LLOYD, DR. A. S. EVE, and DR. A. T. BAZIN.

## The Student Christian Association of McGill University.

The membership of this Association is open to all students in the University and affiliated colleges who are interested enough to take an active part in the work of the Association.

The home of the Association is Strathcona Hall which in addition to providing ample accommodation for the work of the Association as a whole, provides residence for sixty-seven men.

Full particulars regarding the work of the Association are given in the annual Hand Book, and will also be supplied by the General Secretary.

OFFICERS 1924-25.

*Hon. President*—MR. W. M. BIRKS.
*President*—J. W. MACLEOD, Arts '26.
*1st Vice-President*—W. R. WILSON, B.A.
*2nd Vice-President*—R. B. MICHENER, B.A. M'27.
*Treasurer*—D. R. LOGAN, Arts '26.
*Rec.-Secretary*—C. H. WHITMORE, B.A., Th'26.
*House Secretary*—F. S. HOWES, B.Sc.
*Gen.-Secretary*—H. R. C. AVISON, B.A. Th'26.

## The Student Christian Association of The Royal Victoria College.

OFFICERS 1924-25.

*Hon. President*—MRS. J. H. MCKAY.
*President*—E. BAKER.
*Vice-President*—E. STACEY.
*Secretary-Treasurer*—A. TURNER.
*Conference Convener*—W. GRIFFIN.
*Bible Study Convener*—L. GRAY.
*Social Service*—M. FERGUSON.
*Canadian Student Representative*—F. FEATHERSTON.

## Delta Sigma Society

OFFICERS 1924-25.

*Hon. President*—MRS. VAUGHAN.
*Hon. Vice-President*—MRS. IRWIN.
*President*—MISS E. EARDLEY.
*Vice-President*—MISS I. NIXON.
*Secretary-Treasurer*—MISS J. KYLE.
*Poster-Manager*—MISS E. ENGLAND.
*Fourth Year Representative*—MISS K. PERRIN.
*Third Year Representative*—MISS W. GRIFFIN.
*Second Year Representative*—MISS E. BELL.

## Philosophical Society.

OFFICERS 1924-25.

*Hon. President*—DR. IRA MACKAY.
*President*—O. KLINEBERG.
*Vice-President*—J. A. TAYLOR.
*Secretary*—W. F. KELLOWAY.
*Treasurer*—D. H. MACVICAR.

## Royal Victoria College Athletic Association.

OFFICERS 1924-25.

*Hon. President*—MISS LICHTENSTEIN.
*Hon. Adviser*—MISS E. M. CARTWRIGHT.
*President*—MARJORIE MCWATTERS.
*Vice-President*—ROBA DUNTON.
*Secretary*—LAURA ROBERTSON.
*Treasurer*—GLEN CAMERON.
*Basket Ball Manager*—ELISE DUNTON.
*Tennis Manager*—LUCIENNE DESBARATS.
*Hockey Manager*—EILEEN HUTCHISON.
*Sports Manager*—MARGARET MACLAREN.

## McGill School for Social Workers' Undergraduate Society.

OFFICERS 1924-25.

*Hon. President*—DR. C. A. DAWSON.
*President*—MISS MARY RUSSELL.
*Vice-President*—MISS MILDRED RICHARDS.
*Secretary-Treasurer*—MISS ORLEAN RUNNELS.
*Daily Reporter*—MISS MINNIE CUMMINGS.

## Athletic Clubs.

OFFICERS FOR 1924-25.

*Ski and Snowshoe Club.*

*Hon. President*—LT.-COL. HERBERT MOLSON.
*Captain*—T. BROWN, Medicine.
*Manager*—H. ELLIOTT, Medicine '29.

*Swimming and Water Polo Club.*

*Hon. President*—DR. C. T. SULLIVAN.
*Captain of Swimming*—G. E. VERNOT, Sci. '25.
*Captain of Polo*—C. M. ANSON, Sci. '25.
*Manager*—H. M. WILLIAMS, Sci. '26.
*Asst. Manager*—J. W. JARDINE, Arts '26.

*Rugby Club.*

*Hon. President*—MAJOR GEO. C. MCDONALD.
*Captain*—L. P. LITTLE, Med. '27.
*Manager*—F. C. COPE, Law '27.
*Intermediate Manager*—A. PROCTOR, Med. '27.
*Intra-Mural Manager*—H. A. QUACKENBUSH, Med. '27.

*Boxing, Wrestling and Fencing Club.*

*Hon. President*—PROF. C. T. SULLIVAN.
*Captain*—E. A. MACNAUGHTON, Med. '26.
*Manager*—V. SNOW, Med. '27.
*Boxing Representative*—G. M. MERRITT, Sci. '25.
*Wrestling Representative*—P. S. PHELPS, Arts '27.
*Fencing Representative*—C. H. KNEE, Arts.
*Asst. Manager*—T. L. FISHER, Med. '27.

*Track Club.*

*Hon. President*—Dr. F. J. Tees.
*Hon. Treasurer*—Dr. C. McMillan.
*Captain*—F. Consiglio, Arch. '25.
*Manager*—C. W. Fullerton, Med. '25.
*Asst. Manager*—M. Hyde, Arts '26.

*Soccer Club.*

*Hon. President*—Dr. R. F. Ruttan.
*Captain*—C. Seaton, Com. '25.
*Manager*—R. S. Schleifer, Arts '27.
*Asst. Manager*—K. E. Eldridge, Arts '26.
*Intra-mural Manager*—H. T. Airey, Sci. '26.

*English Rugby Club.*

*Hon. President*—Prof. T. H. Matthews.
*President*—A. J. P. Walters, Sci. '25.
*Captain*—K. K. Beaton, Dent. '26.
*Manager*—J. R. Lochead, Med. '27.

*Golf Club.*

*Hon. President*—Dr. R. F. Ruttan.
*Captain*—L. J. Mickles, Com. '25.
*Manager*—W. B. Allan, Med. '28.
*Sec.-Treasurer*—J. Gordon, Sci. '25.

*Indoor Baseball Club.*

*Hon. President*—Mr. O. L. McCulloch.
*Manager*—H. Peacock, Med. '26.
*Asst. Manager*—W. A. Miligan, Med. '27.

*Rowing Club.*

*Hon. President*—Col. W. Bovey.
*Manager*—D. R. Logan, Arts '26.
*Secretary-Treasurer*—J. Murray, Sci. '25.

*Tennis Club.*

*Hon. President*—Dr. C. F. Martin.
*Captain*—J. A. Wright, Med. '28.
*Manager*—L. W. Brown, Med. '25.
*Asst. Manager*—C. W. Leslie, Arts '27.

*Harrier Club.*

*Hon. President*—Mr. W. F. Antliff.
*Captain*—T. Kerr, Sci. '27.
*Manager*—C. Brain, Sci. '27.

*Hockey Club.*

*Hon. President*—Dr. F. J. Tees.
*Manager*—H. A. Quackenbush, Med. '27.
*Captain*—R. McMahon, Dent. '27.

*Gymnastic Club.*

*Hon. President*—Dr. A. S. Lamb.
*Captain*—S. E. McKyes, Sc. '26.
*Manager*—D. W. Bremner, Sci. '27.
*Asst. Manager*—T. R. Keene, Sci. '27.

*Basketball Club.*

*Hon. President*—Mr. E. C. Amaron.
*Manager*—A. K. Muir, Sci. '24.
*Intermediate Manager*—R. M. P. Hamilton, Sci. '25.

## Western Club of McGill University.

The Club has for its objects the furthering of the interests of McGill in the four Western Provinces and the helping of new students to McGill from these Provinces.

Students from Manitoba, Saskatchewan, Alberta, or British Columbia, coming to McGill for the the first time, are requested to communicate with the Secretary of the Club, care The Union, McGill University, Montreal.

Officers 1924-25.

*Hon. President*— ————————
*President*—H. T. Airey.
*Vice-President*—W. O. Stevens.
*Secretary*—K. Reid.
*Treasurer*—J. Jardine.

## The Maritime Club of McGill University.

The object of this Club, which was formed by the amalgamation of the Nova Scotia and New Brunswick and Prince Edward Island clubs, is to promote, in every way possible, the best interests of students coming to McGill from the Maritime Provinces. Such students are urgently requested to communicate with the Secretary of the Club, who will be glad to render them all assistance in his power.

OFFICERS 1923-24.

*Hon. President*—DR. CYRUS MACMILLAN.
*President*—D. J. MACGILLIVRAY.
*Vice-President*—MISS D. TEED.
*Secretary*—R. K. JONES.
*Treasurer*—C. THOMPSON.

## American Club.

OFFICERS 1924-25.

*Hon. President*—PROF. OERTEL.
*President*—R. M. HAMILTON.
*Vice-President*—A. K. KOFF.
*Treasurer*—A. T. DUJAT.
*Secretary*—A. C. LATHROP.

## Newfoundland Club of McGill University.

OFFICERS 1924-25.

*Hon. President*—LIEUT.-COL. E. M. RENOUF.
*President*—HUBERT WELLS, Arts '24.
*Vice-President*—EUGENE FORSEY, Arts '25.
*Secretary*—J. L. BALLENY, Sci. '25.
*Treasurer*—H. G. BENSON, Dent. '25.
*Reporter*—S. SCOTT MILLEY, Theo. '24.
*Social Committee*—D. H. MURRAY, Arts '27.
C. D. CAMPBELL, Sci. '25.
W. W. WATSON, Sci. '24.

### Graduates' Society of McGill University.

*President*—H. M. Little, B.A., M.D., 285 Stanley St., Montreal, Que.
*1st Vice-President*—C. F. Martin, B.A., M.D., 660 Sherbrooke St., Montreal, Que.
*2nd Vice-President*—N. M. McLeod, B.A.Sc., 39 Chestnut Park, Toronto, Ont.
*Hon. Secretary*—J. W. Jeakins, B.A., McGill University, Montreal, Que.
*Hon. Treasurer*—H. M. Lamb, M.Sc., 156 Marlowe Avenue, Notre Dame de Grace, Que.

*Executive*:

Miss Isabel Brittain, B.A., 9 Tower Avenue, Montreal, Que.
J. G. Ross, B.Sc., Milton Hersey Company, 84 St. Antoine Street, Montreal, Que.
R. H. M. Hardisty, M.D., Medical Arts Building, Montreal, Que.
L. H. McKim, M.D., Medical Arts Building, Montreal, Que.

*Executive Secretary*—W. Durie McLennan, B.Arch., McGill Univ., Montreal.

### Alumnae Association of McGill University.

Officers 1923-24.

*President*—Miss May Idler, B.A.
*1st Vice-President*—Mrs. A. D. Fry, B.A.
*2nd Vice-President*—Miss Catherine F. MacKenzie, B.A.
*3rd Vice-President*—Miss A. Muriel Wilson, B.A.
*4th Vice-President*—Mrs. Walter Brown.
*Cor. Secretary*—Miss Margaret Macnaughton, B.A., 26 Burton Ave. Westmount.
*Treasurer*—Mrs. K. W. Hunten, 274 Oxford Ave., N.D.G.

### District of Bedford McGill Graduates' Society.

Officers 1924-25.

*President*—Hon. Mr. Justice Hackett.
*Secretary-Treasurer*—Rev. Ernest M. Taylor, M.A., Knowlton, P.Q.
*Reporter*—Major Stockwell, K.C., Cowansville, Que.

### McGill Alumni Association of Chicago.

Officers 1924-25.

*President*—D. E. McMillan, B.Sc., Old Colony Building, Chicago, Ill.
*Secretary*—Dr. Norman Kerr, 25 East Washington St., Chicago, Ill.

### Halifax Graduates' Society.

OFFICERS 1924-25.

*President*—C. H. WRIGHT, B.A.Sc., 110 Oxford Street, Halifax, N.S.
*Secretary*—W. P. COPP, B.Sc., Dalhousie University, Halifax, N.S.

### Hamilton Graduates' Society.

OFFICERS 1924-25.

*President*—DR. PRYSE PARK, 164 James Street, Hamilton, Ont.
*Secretary*—DR. G. E. J. LANNIN, 150 James St., S., Hamilton, Ont.

### Kootenay (B.C.) and Boundary Graduates' Society.

OFFICERS 1924-25.

*President*—DR. C. S. WILLIAMS, Rossland, B.C.
*Secretary*—C. T. OUGHTRED, B.A., Trail, B.C.

### Los Angeles Graduates' Society.

OFFICERS 1924-25.

*President*—VICTOR E. DAWSON, B.Sc.,
616 N. Oxford Avenue, Los Angeles, Calif.
*Vice-President*—R. A. Crothers, B.A., LL.B.,
2001 Gough St., San Francisco, Calif.
*Secretary-Treasurer*—MRS. S. WRIGHT JEWETT, B.A.,
2034 South-Western Ave., Los Angeles, Calif.

### New England Graduates' Society.

OFFICERS 1924-25.

*President*—DR. E. C. NOBLE, Boston State Hospital, Boston, Mass.
*Secretary*—DR. DEXTER, Taunton State Hospital, Taunton, Mass.

### New York Graduates' Society.

OFFICERS 1924-25.

*President*—E. P. MATTHEWSON, B.Sc., LL.D.,
42 Broadway, New York, N.Y.
*Secretary*—L. G. DENNISON, B.A., B.Sc.,
110 Beach Street, Marmaroneck, N.Y.

### Northern Alberta Graduates' Society.

OFFICERS 1924-25.

*President*—HON. A. C. RUTHERFORD, B.A., B.C.L.,
514 McLeod Block, Edmonton, Alta.
*Secretary*—C. CARRUTHERS, B.A., 8319-101st Street, Edmonton, Alta.

### Southern Alberta Graduates' Society.

OFFICERS 1924-25.

*President*—COL. GEORGE MCDONALD, M.D.,
120-6th Avenue, Calgary, Alta.
*Secretary*—S. K. PEARCE, B.Sc., 514 Burns Bld., Calgary, Alta.

### Ottawa Valley Graduates' Society.

OFFICERS 1924-25.

*President*—J. B. MCRAE, B.Sc., 336 Jackson Bldg., Ottawa, Ont.
*Secretary*—ROBERT C. BERRY, B.Sc., 54 The Driveway, Ottawa, Ont.

### Prince Edward Island Graduates' Society.

OFFICERS 1924-25.

*President*—HON. JUSTICE WILLIAM S. STEWART, B.A., K.C.,
Charlottetown, P.E.I.
*Secretary*—DR. W. J. P. MCMILLAN, 205 Kent St., Charlottetown, P.E.I.

### Quebec Graduates' Society.

OFFICERS 1924-25.

*President*—BRIG.-GEN. J. E. LANDRY, B.C.L.,
59 St. Louis Street, Quebec, Que.
*Secretary*—O. L. BOULANGER, B.C.L., 132 St. Peter St., Quebec, Que.

### St. Maurice Valley Graduates' Society.

OFFICERS 1924-25.

*President*—H. S. REID, B.A., Maple Avenue, Shawinigan Falls, Que.
*Secretary*—JOHN RYAN, HOTEL St-Louis, Three-Rivers, Que.

### St. John (N.B.) Graduates' Society.

OFFICERS 1924-25.

*President*—C. G. HARE, B.Sc., City Engineer, St. John, N.B.
*Secretary*—DR. W. WARWICK, 151 Leinster Street, St. John, N.B.

### McGill Graduates' Society of Toronto.

OFFICERS 1924-25.

*President*—HON. MR. JUSTICE JAMES CRAIG,
73 Walker Avenue, Toronto, Ont.
*Secretary*—H. B. WHYTE, B.Sc., 74 Summerhill Ave., Toronto, Ont.

### McGill Graduates' Society of Vancouver.

OFFICERS 1924-25.

*President*—DR. R. E. MCKECHNIE,
Birks Building, Vancouver, B.C.
*Secretary*—NEVILLE SMITH, B.A., 543 Hastings St. W., Vancouver, B.C.
*Treasurer*—R. G. PHIPPS, B.A.
936 Rogers Building, Vancouver, B.C.

### McGill Graduates' Society of Victoria.

OFFICERS 1924-25.

*President*—DR. M. J. KEYS, 305 Jones Block, Victoria, B.C.
*Secretary and Reporter*—DR. M. W. THOMAS,
861 Fort St., Victoria, B.C.
*Treasurer*—DR. R. L. MILLER, 312 Jones Bldg., Victoria, B.C.

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